

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

THIS PAGE BLANK (USPTO)

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 9, 2002, 06:12:23 ; Search time 81 Seconds

(without alignments)
312.563 Million cell updates/sec

Title: US-09-895-298a-83

Perfect score: 190

Sequence: 1 MMNFQPPSKAWRASQMMTF.....HDGSLDLKRSRSGEGRPA 190

Scoring table:

GAPOP 60.0 , Gapext 60.0

Searched: 908470 seqs, 133250620 residues

Word size : 4

Total number of hits satisfying chosen parameters: 177959

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : A.GeneSeq.101002.*

1: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1980.DAT:*
2: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1981.DAT:*
3: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1982.DAT:*
4: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1983.DAT:*
5: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1984.DAT:*
6: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1985.DAT:*
7: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1986.DAT:*
8: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1987.DAT:*
9: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1988.DAT:*
10: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1989.DAT:*
11: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1990.DAT:*
12: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1991.DAT:*
13: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1992.DAT:*
14: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1993.DAT:*
15: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1994.DAT:*
16: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1995.DAT:*
17: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1996.DAT:*
18: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1997.DAT:*
19: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1998.DAT:*
20: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA1999.DAT:*
21: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA2000.DAT:*
22: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA2001.DAT:*
23: /SIDS2/gcgdata/geneSeq/geneSeq-emb1/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	190	100.0	191	21	Human secreted pro
2	190	100.0	191	22	Human CASB6411-rel
3	190	100.0	268	22	Human protein SFO
4	190	100.0	280	22	Human IAK-4p homol
5	190	100.0	280	22	Human protein SFO
6	190	100.0	330	22	Human protein sequ
7	190	100.0	387	21	A human leukocyte
8	190	100.0	438	22	Human CASB6411-rel
9	190	100.0	460	22	Human CASB6411 pro
10	31	16.3	31	22	Peptide #7397 enco

11	31	16.3	31	22	AA660631	Human brain expres
12	31	16.3	31	22	AA673303	Human bone marrow
13	31	16.3	31	22	AA633503	Peptide #7340 enco
14	31	16.3	31	22	AB643154	Human peptide enco
15	10	5.3	10	22	AA683083	Human CASB6411 epi
16	10	5.3	10	22	AA683099	Human CASB6411 epi
17	10	5.3	10	22	AA683102	Human CASB6411 epi
18	10	5.3	10	22	AA683105	Human CASB6411 epi
19	10	5.3	10	22	AA683108	Human CASB6411 epi
20	10	5.3	10	22	AA683112	Human CASB6411 epi
21	10	5.3	10	22	AA683125	Human CASB6411 epi
22	10	5.3	10	22	AA683127	Human CASB6411 epi
23	9	4.7	9	22	AA683085	Human CASB6411 epi
24	9	4.7	9	22	AA683086	Human CASB6411 epi
25	9	4.7	9	22	AA683087	Human CASB6411 epi
26	9	4.7	9	22	AA683088	Human CASB6411 epi
27	9	4.7	9	22	AA683091	Human CASB6411 epi
28	9	4.7	9	22	AA683133	Human CASB6411 epi
29	9	4.7	9	22	AA683138	Human CASB6411 epi
30	9	4.7	9	22	AA683139	Human CASB6411 epi
31	9	4.7	9	22	AA683142	Human CASB6411 epi
32	9	4.7	9	22	AA683143	Human CASB6411 epi
33	8	4.2	39	22	AA683145	Human CASB6411 epi
34	8	4.2	85	22	AA690088	Human CASB6411 epi
35	8	4.2	22	22	AA690089	Human CASB6411 epi
36	8	4.2	335	22	AA696431	Human CASB6411 epi
37	7	3.7	10	19	AA657623	Human CASB6411 epi
38	7	3.7	10	21	AA688613	Human CASB6411 epi
39	7	3.7	69	22	AA650753	Human CASB6411 epi
40	7	3.7	69	22	AA650753	Human CASB6411 epi
41	7	3.7	111	23	ABP07407	Human CASB6411 epi
42	7	3.7	115	22	AAU07667	Human CASB6411 epi
43	7	3.7	158	22	AAU50688	Human CASB6411 epi
44	7	3.7	202	23	AB647473	Human CASB6411 epi
45	7	3.7	213	22	AB626815	Human CASB6411 epi

ALIGNMENTS

RESULT 1
AAB24458 standard: Protein; 191 AA.
AAB24458;
20-NOV-2000 (first entry)
Human secreted protein sequence encoded by gene 22 SEQ ID NO:83.
Human; secreted protein; cytosolic; antineoplastic; antidiabetic;
antitumor; antiinflammatory; ophthalmological; antirheumatic; antitubercu;
antiproliferative; antitumor; anti-HIV; neurotrophic;
neuroprotective; antimicrobial; antiparkinsonian; cancer;
immune system disorder; angiogenesis; hyperproliferative disorder;
cardiovascular disorder; apoptosis; neurological disease;
infectious disease; wound healing.
Homo sapiens.
WO200035937-A1.
22-JUN-2000.
16-DEC-1999; 99WO-US29950.
17-DEC-1998; 98US-0112809.
18-DEC-1998; 98US-0113006.
(HUMA-) HUMAN GENOME SCI INC.
Ruben SM, Ebner R, Rosen CA, Soppet DR, Ni J;
Duan DR, Moore PA, Shi Y, Lafleur DW, Olsen HS, Florence K;

```

XX WPI; 2000-431566/37.
DR N-PSDB; AAA78402.
XX
XX Forty seven human nucleic acids encoding secreted proteins, useful in
PT the treatment, prevention and diagnosis of cancers, disorders of the
PT immune system, angiogenesis disorders, neurological diseases and
PT hyperproliferative disorders -
XX
XX Claim 11, Page 496, 562pp; English.
XX
CC The polynucleotide sequence given in AAA78381 to AAA78432 encode the
CC human secreted proteins given in AAB24437 to AAB24604. Human secreted
CC proteins have activities based on the tissues and cells the genes are
CC expressed in. Examples of activities include: cytostatic; antineoplastic;
CC antidiabetic; antiinflammatory; ophthalmological; antineumatic;
CC antirheumatic; antiproliferative; antiangiogenic; cardiant; anti-HIV;
CC neurotropic; neuroprotective; antimicrobial and antiparkinsonian.
CC Human secreted protein polynucleotides, polypeptides, antagonists and/or
CC agonists may be useful in treating, preventing, and/or diagnosing other
CC diseases, disorders, and/or conditions such as: (a) cancers; (b)
CC disorders of the immune system; (c) angiogenesis disorders; (d)
CC hyperproliferative disorders; (e) cardiovascular disorders; (f) diseases
CC associated with increase apoptosis; (g) neurological diseases; and
CC (h) infectious diseases. They are also used to promote wound healing.
CC AAA78372 to AAA78380 and AAB24436 represent sequences used in the
CC exemplification of the present invention.
XX
XX Sequence 191 AA:
SQ
Query Match 100.0%; Score 190; DB 21; Length 191;
Best Local Similarity 100.0%; Pred. No. 5.3e-182;
Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MMNQPSPKAMRASQMMTFEFLFPPSFTGVCTLAITIMRLKPSADCGPFGPLPFIH 60
DB 1 MMNQPSPKAMRASQMMTFEFLFPPSFTGVCTLAITIMRLKPSADCGPFGPLPFIH 60
OY 61 SIYSWIDTLSTRPGYLWVWYIRNLIGSVHFFLLTILVILITLYLWQITEGKRIMIRLL 120
DB 61 SIYSWIDTLSTRPGYLWVWYIRNLIGSVHFFLLTILVILITLYLWQITEGKRIMIRLL 120
OY 121 HEQJINGCKRMFLIEKLKIDMEKKANPSSLYLREVEEQGFLHGHDSLDLSR 180
DB 121 HEQJINGCKRMFLIEKLKIDMEKKANPSSLYLREVEEQGFLHGHDSLDLSR 180
OY 181 RSVQEGNPRA 190
DB 181 RSVQEGNPRA 190

RESULT 2
AAB83082
ID AAB83082 standard; Protein; 191 AA.
XX
XX AAB83082;
XX
XX 29-JUN-2001 (first entry)
XX
DE Human CASB6411-related partial polypeptide #2.
XX
XX Human; CASB6411; vaccine; gene therapy; immunophylaxis;
KW ovarian cancer; colon cancer; autoimmune disease.
XX
XX Homo sapiens.
XX
XX OS
XX PN
XX PN WO200123417-A2.
XX
XX PD 05-APR-2001.
XX
XX PF 27-SEP-2000; 2000WO-EP09500.
XX
XX PR 30-SEP-1999; 99GB-0023154.

```

```

PR 07-JUL-2000; 2000GB-0016839.
XX
XX (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX
XX Vinals De Bassols YC;
XX
XX WPI; 2001-316133/33.
DR N-PSDB; AAF82463.
XX
XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX Disclosure; Page 67; 95pp; English.
XX
CC The present sequence is provided in a specification relating
CC to CASB6411 polypeptides comprising a sequence having at least 70%
CC identity to a sequence of 460 or 154 amino acids fully defined in
CC the specification. CASB6411 polypeptides and polynucleotides are
CC useful for treating a subject by immunophylaxis or therapy.
CC The CASB6411 polypeptides are useful in diagnostics, and as
CC vaccines for prophylactic and therapeutic treatment of cancers,
CC particularly ovarian and colon cancers, autoimmune diseases and related
CC conditions. CASB6411 polypeptides are also useful for the
CC structure-based design of agonists, antagonists or inhibitors of the
CC polypeptide.
XX
XX Sequence 191 AA:
SQ
Query Match 100.0%; Score 190; DB 22; Length 191;
Best Local Similarity 100.0%; Pred. No. 5.3e-182;
Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MMNQPSPKAMRASQMMTFEFLFPPSFTGVCTLAITIMRLKPSADCGPFGPLPFIH 60
DB 2 MMNQPSPKAMRASQMMTFEFLFPPSFTGVCTLAITIMRLKPSADCGPFGPLPFIH 61
OY 61 SIYSWIDTLSTRPGYLWVWYIRNLIGSVHFFLLTILVILITLYLWQITEGKRIMIRLL 120
DB 62 SIYSWIDTLSTRPGYLWVWYIRNLIGSVHFFLLTILVILITLYLWQITEGKRIMIRLL 121
OY 121 HEQJINGCKRMFLIEKLKIDMEKKANPSSLYLREVEEQGFLHGHDSLDLSR 180
DB 122 HEQJINGCKRMFLIEKLKIDMEKKANPSSLYLREVEEQGFLHGHDSLDLSR 181
OY 181 RSVQEGNPRA 190
DB 182 RSVQEGNPRA 191

RESULT 3
AAM79104
ID AAM79104 standard; Protein; 268 AA.
XX
XX AAM79104;
XX
XX 06-NOV-2001 (first entry)
XX
DE Human protein SEQ ID NO 1766.
XX
XX Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorder; arthritis; inflammation.
XX
XX Homo sapiens.
XX
XX OS
XX PN
XX PN WO200157190-A2.
XX
XX PD 09-AUG-2001.
XX
XX PF 05-FEB-2001; 2001WO-US04098.
XX

```

PR	03-FEB-2000;	20000US-0496914.	
PR	27-APR-2000;	20000US-0560875.	
PR	20-JUN-2000;	20000US-0598075.	
PR	19-JUL-2000;	20000US-0620325.	
PR	01-SEP-2000;	20000US-0654936.	
PR	15-SEP-2000;	20000US-0663561.	
PR	20-OCT-2000;	20000US-0693325.	
PR	30-NOV-2000;	20000US-0728422.	
XX			
XX	(HYSE-) HYSEQ INC.		
PI	Tang YF, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;		
PI	Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;		
PI	Xue AJ, Yang Y, Wejrtman T, Goodrich R;		
XX			
DR	WPI: 2001-476283/51.		
DR	N-PSDB; AAK52237.		
XX			
PT	Nucleic acids encoding polypeptides with cytokine-like activities,		
PT	useful in diagnosis and gene therapy.		
XX			
PS	Claim 20; Page 4113-4114; 6221pp; English.		
XX			
CC	The invention relates to polynucleotides (AAK51456-AAK53435) and the		
CC	encoded polypeptides (AAW8323-AAW80302) that exhibit activity elating to		
CC	cytokine, cell proliferation or cell differentiation or which may induce		
CC	production of other cytokines in other cell populations. The		
CC	polynucleotides and polypeptides are useful in gene therapy, vaccines or		
CC	peptide therapy. The polypeptides have various cytokine-like activities,		
CC	e.g. stem cell growth factor activity, haematopoiesis regulating		
CC	activity, tissue growth factor activity, immunomodulatory activity and		
CC	activity/inhibin activity and may be useful in the diagnosis and/or		
CC	treatment of cancer, leukaemia, nervous system disorders, arthritis and		
CC	inflammation.		
CC	Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666		
CC	(AAW80020) are omitted as the relevant pages from the sequence listing		
CC	were missing at the time of publication.		
XX			
SQ	Sequence 268 AA;		
	Query Match 100.0%; Score 190; DB 22; Length 268;		
	Best Local Similarity 100.0%; Pred. No. 7e-182;		
	Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY	1 MANNOPPSKARASOMTFETLLFFPSFTGVLCLATIMRLKPSADCGPRGLPLFIH 60		
DB	79 MANNOPPSKARASOMTFETLLFFPSFTGVLCLATIMRLKPSADCGPRGLPLFIH 138		
QY	61 SIYSWIDTLSTRPGYLVWVWVIYRNIGSVHFFIITLVLIITVYVWQITTEGRKIMIRLL 120		
DB	139 SIYSWIDTLSTRPGYLVWVWVIYRNIGSVHFFIITLVLIITVYVWQITTEGRKIMIRLL 198		
QY	121 HEQIINECKDMFLIEKLIKIDMEKKANPSSVLERREVEQGGFLHGEHGSIDLRSR 180		
DB	199 HEQIINECKDMFLIEKLIKIDMEKKANPSSVLERREVEQGGFLHGEHGSIDLRSR 258		
QY	181 RSVQEGNRA 190		
DB	259 RSVQEGNRA 268		
	RESULT 4		
AC	ABBI1361		
XX	ABBI1361 standard; peptide; 280 AA.		
XX	ABBI1361;		
XX			
DT	11-JAN-2002 (first entry)		
XX			
DE	Human IAK-4p homologue, SEQ ID NO:1731.		
XX			
XX	Human; cytokine; cell proliferation; cell differentiation; growth factor;		
XX	hematopoiesis regulation; tissue growth; immunomodulator; activin;		

OS inhibin, chemotaxis; chemokinesis; thrombolysis; oncogenesis;
XX proliferation; metastasis; cancer; tumour; haematopoietic disorder;
PN myeloid cell disorder; lymphoid cell disorder; asthma; arthritis;
XX chronic inflammatory condition; proliferative retinopathy;
XX atherosclerosis; coronary heart disease; arterial ischaemia;
XX bone disorder; osteoporosis; vascular growth disorder;
XX tissue regeneration; wound healing; infection; immune disorder;
XX cell culture; drug screening; gene therapy; anti-inflammatory;
XX antiasthmatic; antiarthritic; haemostatic; antihypertensive;
XX cytosstatic; otopathic; vasotrophic; cardiant; vitricide; antibacterial;
XX antifungal; vulnery; antulcer.
XX
XX Homo sapiens.
XX
XX WO200157188-A2.
XX
XX
XX 09-AUG-2001.
XX
XX
XX 05-FEB-2001; 2001WO-US03800.
XX
XX
XX 03-FEB-2000; 2000US-046914.
XX 27-APR-2000; 2000US-0560875.
XX
XX
XX (HYSEQ-) HYSEQ INC.
XX
XX
XX Tang YT, Liu C, Drmanac RT;
XX
XX WPI: 2001-457740/49.
XX
XX N-PSDB; ABA08605.
XX
XX
XX Human proteins and DNA encoding sequences useful for preventing,
XX treating or ameliorating a medical condition in a mammalian subject
XX e.g. arthritis and cancer -
XX
XX
XX Claim 20; Page 173; 1963pp; English.
XX
XX
XX Sequences ABB10981-ABB12330 represent 1350 novel human polypeptides, and
XX sequences ABA08225-ABA09574 represent nucleic acids encoding them. The
XX invention also relates to vectors and recombinant host cells comprising a
XX nucleotide of the invention, methods of producing the novel polypeptides,
XX antibodies against the polypeptides, methods of detecting the nucleotides
XX or polypeptides in a sample, and methods of identifying compounds which
XX bind to polypeptides of the invention. Although novel, many of the
XX polypeptides of the invention have homology to known proteins, thereby
XX giving an insight into their probable biological activities, and hence
XX potential therapeutic applications. The polypeptides of the invention may
XX have various activities, including cytokine, cell proliferation or cell
XX differentiation activities; stem cell growth factor activity;
XX haematopoietic regulatory activity; tissue growth activity;
XX immunomodulatory activity; activin- or inhibin-related activities;
XX haemostatic or chemokinetic activities; haemostatic, thrombotic or
XX thrombolytic activities; receptor or ligand activities; or may be
XX involved in oncogenesis, cancer cell proliferation or metastasis.
XX Depending on their biological activities, polypeptides and nucleotides of
XX the invention are useful for preventing, treating or ameliorating medical
XX conditions, e.g., by protein or gene therapy. Such conditions include
XX cancers, haematopoietic disorders (e.g., myeloid or lymphoid cell
XX disorders), chronic inflammatory conditions (e.g., asthma or arthritis),
XX proliferative retinopathy, atherosclerosis, coronary heart disease,
XX arterial ischaemia, bone disorders (e.g., osteoporosis), and abnormal
XX vascular growth. Polypeptides involved with tissue regeneration and
XX repair (or nucleic acids encoding them) may be used to promote wound
XX healing (e.g., of burns, incisions and ulcers), while those with
XX immunomodulatory activities may be used in the treatment of viral,
XX bacterial and fungal infections may be used in the treatment of viral,
XX polypeptides with growth factor activity may be used in cell cultures to
XX promote cell growth. For example, such polypeptides may be used to
XX manipulate stem cells in culture to give rise to neuroepithelial cells
XX that can be used to augment or replace cells damaged by illness,
XX autoimmune disease or accidental damage. The polypeptides and nucleotides
XX may also be used in the diagnosis of the above conditions, and in drug
XX screening techniques. The present sequence represents a novel human
XX polypeptide of the invention.

XX Sequence 280 AA;
SQ
Query Match 100.0%; Score 190; DB 22; Length 280;
Best Local Similarity 100.0%; Pred. No. 7.3e-182;
Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MMNFQPPSKAMRASQMMTFEFLFFPSFTGVLCCTLAITTWRLKPSADCGPFGRLPLFIH 60
DB 91 MMNFQPPSKAMRASQMMTFEFLFFPSFTGVLCCTLAITTWRLKPSADCGPFGRLPLFIH 150
QY 61 SIYSWIDTLSTRPGYLWVWYIRNLIGSVHFFILTLIVLITLYLWQITGKRMIRLL 120
DB 151 SIYSWIDTLSTRPGYLWVWYIRNLIGSVHFFILTLIVLITLYLWQITGKRMIRLL 210
QY 121 HEQIINSGKDKMFLIEKLIKLDMEKKANPSSLVEREVEQOGFLHGHDSGLDLSR 180
DB 211 HEQIINSGKDKMFLIEKLIKLDMEKKANPSSLVEREVEQOGFLHGHDSGLDLSR 270
QY 181 RSVQEGNPRA 190
DB 271 RSVQEGNPRA 280

RESULT 5
AAM80088
ID AAM80088 standard; Protein; 280 AA.
XX
AC AAM80088;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human protein SEQ ID NO 3734.
XX
KW Human: cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorder; arthritis; inflammation.
XX
OS Homo sapiens.
XX
PN MO200157190-A2.
PD
XX 09-AUG-2001.
PF
XX 05-FEB-2001; 2001MO-US04098.
PR 03-FEB-2000; 2000US-0496914.
PR 27-APR-2000; 2000US-0560875.
PR 20-JUN-2000; 2000US-0598075.
PR 19-JUL-2000; 2000US-0620325.
PR 01-SEP-2000; 2000US-0654936.
PR 15-SEP-2000; 2000US-0663561.
PR 20-OCT-2000; 2000US-0693325.
PR 30-NOV-2000; 2000US-0728422.
XX
PA (HYSE-) HYSEQ INC.
PI Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
PI Xue AQ, Yang Y, Wejhrman T, Goodrich R;
XX
XX WPI; 2001-476283/51.
DR N-PSDB; AAK53221.
XX
XX
PT Nucleic acids encoding polypeptides with cytokine-like activities,
PT useful in diagnosis and gene therapy -
XX
PS Claim 20; Page 421; 6221pp; English.
XX
CC The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC encoded polypeptides (AAM80323-AAM80302) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce

CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activity/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAM80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.

XX Sequence 280 AA;
SQ
Query Match 100.0%; Score 190; DB 22; Length 280;
Best Local Similarity 100.0%; Pred. No. 7.3e-182;
Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MMNFQPPSKAMRASQMMTFEFLFFPSFTGVLCCTLAITTWRLKPSADCGPFGRLPLFIH 60
DB 91 MMNFQPPSKAMRASQMMTFEFLFFPSFTGVLCCTLAITTWRLKPSADCGPFGRLPLFIH 150
QY 61 SIYSWIDTLSTRPGYLWVWYIRNLIGSVHFFILTLIVLITLYLWQITGKRMIRLL 120
DB 151 SIYSWIDTLSTRPGYLWVWYIRNLIGSVHFFILTLIVLITLYLWQITGKRMIRLL 210
QY 121 HEQIINSGKDKMFLIEKLIKLDMEKKANPSSLVEREVEQOGFLHGHDSGLDLSR 180
DB 211 HEQIINSGKDKMFLIEKLIKLDMEKKANPSSLVEREVEQOGFLHGHDSGLDLSR 270
QY 181 RSVQEGNPRA 190
DB 271 RSVQEGNPRA 280

RESULT 6
AAB95481
ID AAB95481 standard; Protein; 330 AA.
XX
AC AAB95481;
XX
DT 26-JUN-2001 (first entry)
XX
DE Human protein sequence SEQ ID NO:18002.
XX
KW Human: primer; detection; diagnosis; antisense therapy; gene therapy.
XX
OS Homo sapiens.
XX
PN EP1074617-A2.
PD
XX 07-FEB-2001.
PR 28-JUL-2000; 2000EP-0116126.
PR 29-JUL-1999; 99JP-0248036.
PR 27-AUG-1999; 99JP-0300253.
PR 11-JAN-2000; 2000JP-0118776.
PR 02-MAY-2000; 2000JP-0183767.
PR 09-JUN-2000; 2000JP-0241899.
XX
PA (HELI-) HELIX RES INST.
PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
XX WPI; 2001-318749/34.
XX
XX
PT Primer sets for synthesizing polynucleotides, particularly the 5602
PT full-length cDNAs defined in the specification, and for the detection
PT and/or diagnosis of the abnormality of the proteins encoded by the
XX full-length cDNAs -
XX

PS Claim 8; SEQ ID 18002; 2537bp + CD ROM; English.

XX The present invention describes primer sets for synthesizing 5602

CC full-length cDNAs defined in the specification. Where a primer set

CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary

CC to the complementary strand of a polynucleotide which comprises one of

CC the 5602 nucleotide sequences defined in the specification, where the

CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination

CC of an oligonucleotide comprising a sequence complementary to the

CC complementary strand of a polynucleotide which comprises a 5'-end

CC sequence and an oligonucleotide comprising a sequence complementary to a

CC polynucleotide which comprises a 3'-end sequence, where the

CC oligonucleotide comprises at least 15 nucleotides and the combination of

CC the 5'-end sequence/3'-end sequence is selected from those defined in

CC the specification. The primer sets can be used in antisense therapy and

CC in gene therapy. The primers are useful for synthesising polynucleotides,

CC particularly full-length cDNAs. The primers are also useful for the

CC detection and/or diagnosis of the abnormality of the proteins encoded by

CC the full-length cDNAs. The primers allow obtaining of the full-length

CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and

CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to

CC AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632

CC represent oligonucleotides, all of which are used in the exemplification

CC of the present invention.

XX

XX Sequence 330 AA:

SO

Query Match 100.0%; Score 190; DB 22; Length 330;

Best Local Similarity 100.0%; Pred. No. 8.3e-182;

Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MNMFOPSKAMRASQMMTFIFLLFPSPFTGVCTLATITWRLKPSADCGPFGPLFTH 60

DB 141 MNMFOPSKAMRASQMMTFIFLLFPSPFTGVCTLATITWRLKPSADCGPFGPLFTH 200

QY 61 STYSWIDTLSTRPGYLMVWVYIRNLIGSVHFFFLTLVLIITYLTWQTEGRKIMIRLL 120

DB 201 STYSWIDTLSTRPGYLMVWVYIRNLIGSVHFFFLTLVLIITYLTWQTEGRKIMIRLL 260

QY 121 HEQITNEGDKMFLIKLKLQDMKKANPSSLYLERREVEOQGFHLHGHDSLDLRSR 180

DB 261 HEQITNEGDKMFLIKLKLQDMKKANPSSLYLERREVEOQGFHLHGHDSLDLRSR 320

QY 181 RSVQEGNPRA 190

DB 321 RSVQEGNPRA 330

RESULT 7

AAB08764

ID AAB08764 standard; Protein; 387 AA.

XX

XX AAB08764;

XX

XX 02-JAN-2001 (first entry)

XX

XX A human leukocyte and blood related protein (LBAP).

DE

XX Human; leukocyte and blood related protein; LBAP; arteriosclerosis;

XX cell proliferative disorder; actinic keratosis; atherosclerosis;

KW bursitis; cirrhosis; hepatitis; mixed connective tissue disease; MCTD;

KW myelofibrosis; paroxysmal nocturnal hemoglobinuria; cancer;

KW adenocarcinoma; leukemia; lymphoma; melanoma; myeloma; sarcoma;

KW teratocarcinoma; autoimmune disorder; inflammatory disorder;

KW acquired immunodeficiency syndrome; AIDS; Addison's disease;

KW adult respiratory distress syndrome; allergy; ankylosing spondylitis;

KW amyloidosis; anaemia; asthma; autoimmune haemolytic anaemia; infection;

KW Werner syndrome; haemodialysis; extracorporeal circulation; trauma.

XX

XX Homo sapiens.

OS

XX Key Location/Qualifiers

XX Peptide 1..51

FT

FT Domain /note= "signal peptide"

FT 74..94 /note= "transmembrane domain"

FT Modified-site 101 /note= "potential phosphorylation site"

FT Domain 114..134 /note= "transmembrane domain"

FT Modified-site 163 /note= "potential phosphorylation site"

FT Domain /note= "potential phosphorylation site"

FT 167..189 /note= "transmembrane domain"

FT Modified-site 194 /note= "potential glycosylation site"

FT Domain 213..237 /note= "transmembrane domain"

FT Modified-site 261 /note= "potential phosphorylation site"

FT Modified-site 267 /note= "potential phosphorylation site"

FT Domain 281..299 /note= "transmembrane domain"

FT Modified-site 376 /note= "potential phosphorylation site"

FT Modified-site 379 /note= "potential phosphorylation site"

FT

PN WO200052161-A2.

XX

XX 08-SEP-2000.

PD

PF 29-FEB-2000; 2000WO-US05153.

XX

PR 01-MAR-1999; 99US-0122080.

XX

PA (INCY-) INCYTE PHARM INC.

PI Lal P, Yue H, Hillman JL, Lu DM, Baughn MR, Tang YF, Azimzal Y;

XX

XX WPI: 2000-587310/55.

DR N-PSDB: AAA64684.

XX

PT Leukocyte and blood associated proteins and polynucleotides encoding

PT them, useful for diagnosis, treatment and prevention of

PT autoimmune/inflammatory disorders and cell proliferative disorders

PT including cancer -

XX

PS Claim 1; Page 65; 70pp; English.

XX

XX The present sequence presents a human leukocyte and blood related

CC protein, designated LBAP. LBAP polynucleotides and polypeptides are

CC useful for treating or preventing a disorder associated with decreased

CC expression or activity of LBAP including a cell proliferative disorder

CC such as actinic keratosis, arteriosclerosis, atherosclerosis, bursitis,

CC cirrhosis, hepatitis, mixed connective tissue disease (MCTD),

CC myelofibrosis, paroxysmal nocturnal hemoglobinuria, etc., cancers

CC including adenocarcinoma, leukemia, lymphoma, melanoma, myeloma,

CC sarcoma, teratocarcinoma and in particular cancers of the adrenal

CC gland, bladder, bone, bone marrow, brain, breast, cervix, etc., and

CC an autoimmune/inflammatory disorder such as acquired immunodeficiency

CC syndrome (AIDS), Addison's disease, adult respiratory distress syndrome,

CC allergies, ankylosing spondylitis, amyloidosis, anaemia, asthma,

CC atherosclerosis, autoimmune haemolytic anaemia, etc., Werner syndrome,

CC complications of cancer, haemodialysis, and extracorporeal circulation,

CC viral, bacterial, fungal, parasitic, protozoan, and helminthic

CC infections, and trauma.

XX

SO Sequence 387 AA:

Query Match 100.0%; Score 190; DB 21; Length 387;

Best Local Similarity 100.0%; Pred. No. 9.5e-182;

Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MNMFOPSKAMRASQMMTFIFLLFPSPFTGVCTLATITWRLKPSADCGPFGPLFTH 60

Db 198 MNFQPPSKAMRASQMTFFIFLLFPSPFTGVCLTAITTWRLKPSADCGPFRGLPLFIH 257
QY 61 SIYSWIDTLSTRPGYLWVWVIYRNILIGSVHFFILTLVLITLYLWQITGKRMIRLL 120
Db 258 SIYSWIDTLSTRPGYLWVWVIYRNILIGSVHFFILTLVLITLYLWQITGKRMIRLL 317
QY 121 HEQIINEGKDKMFLIEKLKIDMEKKANPSSLVLERREYEQGFLHGGHDSLDLSR 180
Db 318 HEQIINEGKDKMFLIEKLKIDMEKKANPSSLVLERREYEQGFLHGGHDSLDLSR 377
QY 181 RSVQEGNPRA 190
Db 378 RSVQEGNPRA 387

RESULT 8

AAB83081
ID AAB83081 standard; Protein; 438 AA.

AC AAB83081;

DT 29-JUN-2001 (first entry)

DE Human CASB6411-related partial polypeptide #1.

KW Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease.

OS Homo sapiens.

PN WO200123417-A2.

PD 05-APR-2001.

PF 27-SEP-2000; 2000WO-EP09500.

PR 30-SEP-1999; 99GB-0023154.

PR 07-JUL-2000; 2000GB-0016839.

XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.

PI Vinals De Bassols YC;

DR WPI; 2001-316133/33.

DR N-PSDB; AAF82462.

PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
prophylactic and therapeutic treatment of cancers, particularly ovarian
and colon cancers, autoimmune diseases and related conditions -
PS Disclosure; Page 66; 95pp; English.

XX The present sequence is provided in a specification relating
CC to CASB6411 polypeptides comprising a sequence having at least 708
CC identity to a sequence of 460 or 154 amino acids fully defined in
CC the specification. CASB6411 polypeptides and polynucleotides are
CC useful for treating a subject by immunoprophylaxis or therapy.
CC The CASB6411 polypeptides are useful in diagnostics, and as
CC vaccines for prophylactic and therapeutic treatment of cancers,
CC particularly ovarian and colon cancers, autoimmune diseases and related
CC conditions. CASB6411 polypeptides are also useful for the
CC structure-based design of agonists, antagonists or inhibitors of the
CC polypeptide.

XX Sequence 438 AA;

Query Match 100.0%; Score 190; DB 22; Length 438;

Best Local Similarity 100.0%; Pred. No. 1.1e-181;

Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MNFQPPSKAMRASQMTFFIFLLFPSPFTGVCLTAITTWRLKPSADCGPFRGLPLFIH 60
|||||

Db 249 MNFQPPSKAMRASQMTFFIFLLFPSPFTGVCLTAITTWRLKPSADCGPFRGLPLFIH 308
QY 61 SIYSWIDTLSTRPGYLWVWVIYRNILIGSVHFFILTLVLITLYLWQITGKRMIRLL 120
Db 309 SIYSWIDTLSTRPGYLWVWVIYRNILIGSVHFFILTLVLITLYLWQITGKRMIRLL 368
QY 121 HEQIINEGKDKMFLIEKLKIDMEKKANPSSLVLERREYEQGFLHGGHDSLDLSR 180
Db 369 HEQIINEGKDKMFLIEKLKIDMEKKANPSSLVLERREYEQGFLHGGHDSLDLSR 428
QY 181 RSVQEGNPRA 190
Db 429 RSVQEGNPRA 438

RESULT 9

AAB83079
ID AAB83079 standard; Protein; 460 AA.

AC AAB83079;

DT 29-JUN-2001 (first entry)

DE Human CASB6411 protein.

KW Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease.

OS Homo sapiens.

PN WO200123417-A2.

PD 05-APR-2001.

PF 27-SEP-2000; 2000WO-EP09500.

PR 30-SEP-1999; 99GB-0023154.

PR 07-JUL-2000; 2000GB-0016839.

XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.

PI Vinals De Bassols YC;

DR WPI; 2001-316133/33.

DR N-PSDB; AAF82460.

PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
prophylactic and therapeutic treatment of cancers, particularly ovarian
and colon cancers, autoimmune diseases and related conditions -
PS Claim 1; Page 64; 95pp; English.

XX The present sequence is human CASB6411 polypeptide. The
CC invention relates to CASB6411 polypeptides comprising a sequence
CC having at least 708 identity to a sequence of 460 or 154 amino acids
CC fully defined in the specification. CASB6411 polypeptides and
CC polynucleotides are useful for treating a subject by immunoprophylaxis
CC or therapy. The CASB6411 polypeptides are useful in diagnostics, and
CC as vaccines for prophylactic and therapeutic treatment of cancers,
CC particularly ovarian and colon cancers, autoimmune diseases and related
CC conditions. CASB6411 polypeptides are also useful for the
CC structure-based design of agonists, antagonists or inhibitors of the
CC polypeptide. The full length mRNA encoding the present sequence may
CC be alternatively spliced to generate a mRNA encoding a truncated
CC CASB6411 protein.

XX Sequence 460 AA;

Query Match 100.0%; Score 190; DB 22; Length 460;

Best Local Similarity 100.0%; Pred. No. 1.1e-181;

Matches 190; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MNFQPPSKAMRASQMTFFIFLLFPSPFTGVCLTAITTWRLKPSADCGPFRGLPLFIH 60
|||||


```
Db 271 MMNFQPPSKAMRASQMMTFEFLFPFSTGYLCTLAITWRLKPSADCGPFRGLPLFIH 330
OY 61 STYSWIDTSTRGTYLWVWYIIRNLIGSVHFFILTLVLYLTYXWQITGKAKIRLL 120
Db 331 STYSWIDTSTRGTYLWVWYIIRNLIGSVHFFILTLVLYLTYXWQITGKAKIRLL 390
OY 121 HEQIIEGKDKMFLIKLIDMEKKANPSSIVLERREVOGFLHGEHDSGLDLSR 180
Db 391 HEQIIEGKDKMFLIKLIDMEKKANPSSIVLERREVOGFLHGEHDSGLDLSR 450
OY 181 RSVQEGNPRA 190
Db 451 RSVQEGNPRA 460

RESULT 10
ABB39891
ID ABB39891 standard; Peptide; 31 AA.
AC ABB39891;
XX
XX
DT 04-FEB-2002 (first entry)
DE Peptide #7397 encoded by human foetal liver single exon probe.
XX
XX
KM Human; foetal liver; gene expression; single exon nucleic acid probe.
XX
OS Homo sapiens.
XX
PN WO200157275-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00669.
XX
PR 04-FEB-2000; 2000US-0180312.
XX
PR 26-MAY-2000; 2000US-0207456.
XX
PR 30-JUN-2000; 2000US-0608408.
XX
PR 03-AUG-2000; 2000US-0632366.
XX
PR 21-SEP-2000; 2000US-0234687.
XX
PR 27-SEP-2000; 2000US-0236359.
XX
PR 04-OCT-2000; 2000GB-0024263.
XX
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-483447/52.
XX
DR WPI; 2001-483447/52.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human fetal liver -
XX
PS Claim 27; SEQ ID NO 32526; 639pp + sequence listing; English.
XX
XX
CC The invention relates to a single exon nucleic acid probe for
CC measuring human gene expression in a sample derived from human foetal
CC liver. The single exon nucleic acid probes may be used for predicting,
CC measuring and displaying gene expression in samples derived from human
CC fetal liver. The present sequence is a peptide encoded by a single exon
CC nucleic acid probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 31 AA;

Query Match 16.3%; Score 31; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 1.7e-23;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 131 KMFLIEKLIKIDMEKKANPSSIVLERREVE 161
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

```
Db 1 KMFLIEKLIKIDMEKKANPSSIVLERREVE 31

RESULT 11
AAM60631
ID AAM60631 standard; Protein; 31 AA.
XX
XX
AC AAM60631;
XX
DT 05-NOV-2001 (first entry)
DE Human brain expressed single exon probe encoded protein SEQ ID NO: 32736.
XX
XX
KM Human; brain expressed exon; gene expression analysis; probe;
KM microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
KM epilepsy; cancer.
XX
XX
OS Homo sapiens.
XX
PN WO200157275-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00667.
XX
PR 04-FEB-2000; 2000US-0180312.
XX
PR 26-MAY-2000; 2000US-0207456.
XX
PR 30-JUN-2000; 2000US-0608408.
XX
PR 03-AUG-2000; 2000US-0632366.
XX
PR 21-SEP-2000; 2000US-0234687.
XX
PR 27-SEP-2000; 2000US-0236359.
XX
PR 04-OCT-2000; 2000GB-0024263.
XX
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-483446/52.
XX
DR WPI; 2001-483446/52.
XX
PT Single exon nucleic acid probes for analyzing gene expression in human
PT brains -
XX
XX
PS Example 4; SEQ ID NO: 32736; 650pp + Sequence listing; English.
XX
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC brain. They can be used to measure gene expression in brain cell samples,
CC which may enable the diagnosis and improved treatment of nervous system
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC epilepsy and cancers. The present sequence is a protein encoded by one of
CC the probes of the invention.
XX
SQ Sequence 31 AA;

Query Match 16.3%; Score 31; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 1.7e-23;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 131 KMFLIEKLIKIDMEKKANPSSIVLERREVE 161
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Db 1 KMFLIEKLIKIDMEKKANPSSIVLERREVE 31

RESULT 12
AAM73303
ID AAM73303 standard; Protein; 31 AA.
XX
XX
AC AAM73303;
XX
DT 06-NOV-2001 (first entry)
DE Human bone marrow expressed probe encoded protein SEQ ID NO: 33609.
XX
```

```

KW Human: bone marrow expressed exon; gene expression analysis; probe;
KV microarray; cancer; leukemia; lymphoma; myeloma.
XX
OS Homo sapiens.
PN W0200157276-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00668.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WP1: 2001-488900/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human bone marrow -
XX
PS Example 4; SEQ ID NO: 33609; 658bp + Sequence Listing: English.
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC bone marrow. They can be used to measure gene expression in bone marrow
CC samples, which may enable the improved diagnosis and treatment of cancers
CC such as lymphoma, leukemia and myeloma. The present sequence is a
CC protein encoded by one of the probes of the invention.
XX
SQ Sequence 31 AA:
XX
Query Match 16.3%; Score 31; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 1.7e-23;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 131 KMFLEKLIKIDMEKKANPSSLVREVE 161
DB 1 KMFLEKLIKIDMEKKANPSSLVREVE 31
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
RESULT 13
AAM33503
AAID AAM33503 standard; Protein: 31 AA.
XX
AC AAM33503;
XX
DT 17-OCT-2001 (first entry)
XX
DE Peptide #7540 encoded by probe for measuring placental gene expression.
KM Probe: microarray; human; placenta; antenatal diagnosis;
KW genetic disorder.
XX
OS Homo sapiens.
XX
PN W0200157272-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00663.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.

```

```

PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488897/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human placenta -
XX
PS Claim 27; SEQ ID No 33772; 654bp; English.
XX
CC The present invention relates to single exon nucleic acid probes (SENP:
CC see AI1315-AI157546). The present sequence is a peptide encoded by one
CC such probe. The probes are useful for producing a microarray for
CC predicting, measuring and displaying gene expression in samples derived
CC from human placenta. The probes are useful for antenatal diagnosis of
CC human genetic disorders.
XX
SQ Sequence 31 AA;
XX
Query Match 16.3%; Score 31; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 1.7e-23;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
OY 131 KMFLEKLIKIQDMKKANPSSLVLERRVE 161
DB 1 KMFLEKLIKIQDMKKANPSSLVLERRVE 31
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
RESULT 14
ABG43154
ID ABG43154 standard; Peptide: 31 AA.
XX
AC ABG43154;
XX
DT 19-AUG-2002 (first entry)
XX
DE Human peptide encoded by genome-derived single exon probe SEQ ID 32819.
XX
KW Human; single exon probe; asthma; lung cancer; COPD; ILD;
KW chronic obstructive pulmonary disease; interstitial lung disease;
KW familial idiopathic pulmonary fibrosis; neurofibromatosis;
KW tuberosus sclerosis; Gaucher's disease; Niemann-Pick disease;
KW Herman sky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;
KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagener syndrome;
KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
KW primary ciliary dyskinesia; pulmonary hypertension;
KW hyaline membrane disease.
XX
OS Homo sapiens.
XX
PN WO200186003-A2.
XX
PD 15-NOV-2001.
XX
PF 30-JAN-2001; 2001WO-US00665.
XX
PR 04-FEB-2000; 2000US-180312P.
PR 26-MAY-2000; 2000US-207456P.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-234687P.
PR 27-SEP-2000; 2000US-236359P.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX

```

DR WPI: 2002-114183/15.
 XX Spatially-addressable set of single exon nucleic acid probes, used to
 PT measure gene expression in human lung samples -
 XX
 PS Claim 27; SEQ ID No 32819; 634pp; English.
 XX
 CC The invention relates to a spatially-addressable set of single exon
 CC nucleic acid probes for measuring gene expression in a sample derived
 CC from human lung comprising single exon nucleic acid probes having one of
 CC 12614 nucleic acid sequences mentioned in the specification, or their
 CC complements or the 12387 open reading frames derived from the 12614
 CC probes. Also included are a microarray comprising the novel set of
 CC probes; the novel set of probes which hybridize at high stringency to a
 CC nucleic acid expressed in the human lung; measuring gene expression in a
 CC sample derived from human lung, comprising (a) contacting the array with
 CC a collection of detectably labeled nucleic acids derived from human lung
 CC mRNA, and (b) measuring the label detectably bound to each probe of
 CC the array; identifying exons in a eukaryotic genome, comprising
 CC (a) algorithmically predicting at least one exon from genomic sequences
 CC of the eukaryote; and (b) detecting specific hybridisation of detectably
 CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
 CC having a fragment identical to the predicted exon, the probe is included
 CC in the above mentioned microarray; assigning exons to a single gene,
 CC comprising (a) identifying exons from genomic sequence by the method
 CC above and (b) measuring the expression of each of the exons in several
 CC tissues and/or cell types using hybridisation to a single exon
 CC microarrays having a probe with the exon, where a common pattern of
 CC expression of the exons in the tissues and/or cell types indicates that
 CC the exons should be assigned to a single gene; a peptide comprising one
 CC of 12011 sequences, mentioned in the specification, or encoded by the
 CC probes/open reading frames (ORF). The probes are used for gene
 CC expression analysis, and for identifying exons in a gene, particularly
 CC using human lung derived mRNA and for the study of lung diseases
 CC such as asthma, lung cancer, chronic obstructive pulmonary disease
 CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
 CC fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
 CC Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
 CC haemorrhoidosis, pulmonary histiocytosis, lymphangioleiomyomatosis,
 CC pulmonary alveolar proteinosis, Karagenen syndrome, fibrocystic
 CC pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension
 CC and hyaline membrane disease. The present sequence is a peptide/protein
 CC encoded by a single exon probe of the invention.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 CC
 XX
 SQ Sequence 31 AA;
 Query Match 16.3%; Score 31; DB 23; Length 31;
 Best Local Similarity 100.0%; Pred. No. 1,7e-23;
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 131 KMFLLEKLIKIDMEKKNPSSLVERREVE 161
 DB 1 KMFLLEKLIKIDMEKKNPSSLVERREVE 31
 RESULT 15
 AAB83083
 ID AAB83083 standard; Peptide: 10 AA.
 XX
 AC AAB83083;
 XX
 DT 29-JUN-2001 (first entry)
 XX
 DE Human CASB6411 epitope, SEQ ID NO: 9.
 XX
 KW Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
 KW ovarian cancer; colon cancer; autoimmune disease; immunogen;
 KW epitope; human leukocyte antigen; HLA; HLA binding peptide.
 XX

OS Homo sapiens.
 XX
 PN WO200123417-A2.
 XX
 PD 05-APR-2001.
 XX
 PF 27-SEP-2000; 2000WO-EP09500.
 XX
 PR 30-SEP-1999; 99GB-0023154.
 PR 07-JUL-2000; 2000GB-0016839.
 XX
 PA (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
 XX
 PI Vinals De Bassols YC;
 XX
 DR WPI: 2001-316133/33.
 XX
 PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
 PT prophylactic and therapeutic treatment of cancers, particularly ovarian
 PT and colon cancers, autoimmune diseases and related conditions -
 PS Example 10; Page 59; 95pp; English.
 XX
 CC The present sequence is an epitope of human CASB6411. It is a human
 CC leukocyte antigen (HLA) binding peptide which may be used to elicit
 CC an immune response against CASB6411. The invention relates to CASB6411
 CC polypeptides comprising a sequence having at least 70% identity to a
 CC sequence of 460 or 154 amino acids fully defined in the specification.
 CC CASB6411 polypeptides and polynucleotides are useful for treating a
 CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
 CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
 CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
 CC diseases and related conditions. CASB6411 polypeptides are also useful
 CC for the structure-based design of agonists, antagonists or inhibitors of
 CC the polypeptide.
 CC
 XX
 SQ Sequence 10 AA;
 Query Match 5.3%; Score 10; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0069;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 109 ITEGRKIMIR 118
 DB 1 ITEGRKIMIR 10
 RESULT 16
 AAB83099
 ID AAB83099 standard; Peptide: 10 AA.
 XX
 AC AAB83099;
 XX
 DT 29-JUN-2001 (first entry)
 XX
 DE Human CASB6411 epitope, SEQ ID NO: 25.
 XX
 KW Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
 KW ovarian cancer; colon cancer; autoimmune disease; immunogen;
 KW epitope; human leukocyte antigen; HLA; HLA binding peptide.
 XX
 OS Homo sapiens.
 XX
 PN WO200123417-A2.
 XX
 PD 05-APR-2001.
 XX
 PF 27-SEP-2000; 2000WO-EP09500.
 XX
 PR 30-SEP-1999; 99GB-0023154.
 PR 07-JUL-2000; 2000GB-0016839.
 XX
 PA (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
 XX

XX Vinals De Bassols YC;
XX
XX WPI; 2001-316133/33.
XX
XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX Example 10; Page 60; 95pp; English.
XX
XX The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.
XX
XX Sequence 10 AA;
SQ
Query Match 5.3%; Score 10; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0069;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 15 QMMTFEFL 24
| | | | | | | | | |
Db 1 QMMTFEFL 10
RESULT 17
AAB83102
ID AAB83102 standard; Peptide; 10 AA.
XX
AC AAB83102;
XX
DT 29-JUN-2001 (first entry)
XX
XX Human CASB6411 epitope, SEQ ID NO: 28.
DE
XX Human: CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease; immunogen;
KM epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
OS Homo sapiens.
XX
XX WO200123417-A2.
PN
XX
PD 05-APR-2001.
XX
XX 27-SEP-2000; 2000WO-EP09500.
PF
XX 30-SEP-1999; 99GB-0023154.
PR 07-JUL-2000; 2000GB-0016839.
XX
XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
PA
XX Vinals De Bassols YC;
PI
XX
XX WPI; 2001-316133/33.
DR
XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX Example 10; Page 60; 95pp; English.
XX
XX The present sequence is an epitope of human CASB6411. It is a human

CC Leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.
XX
XX Sequence 10 AA;
SQ
Query Match 5.3%; Score 10; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0069;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 23 LLEFPSTGV 32
| | | | | | | | | |
Db 1 LLEFPSTGV 10
RESULT 18
AAB83105
ID AAB83105 standard; Peptide; 10 AA.
XX
AC AAB83105;
XX
DT 29-JUN-2001 (first entry)
XX
XX Human CASB6411 epitope, SEQ ID NO: 31.
DE
XX Human: CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease; immunogen;
KM epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
OS Homo sapiens.
XX
XX WO200123417-A2.
PN
XX
PD 05-APR-2001.
XX
XX 27-SEP-2000; 2000WO-EP09500.
PF
XX 30-SEP-1999; 99GB-0023154.
PR 07-JUL-2000; 2000GB-0016839.
XX
XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
PA
XX Vinals De Bassols YC;
PI
XX
XX WPI; 2001-316133/33.
DR
XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX Example 10; Page 60; 95pp; English.
XX
XX The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.

SQ Sequence 10 AA;

Query Match

Best Local Similarity 5.3%; Score 10; DB 22; Length 10;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 SOMMTFFIFL 23

DB 1 SOMMTFFIFL 10

RESULT 19

AAB83108
ID AAB83108 standard; Peptide; 10 AA.

AC AAB83108;

DT 29-JUN-2001 (first entry)

DE Human CASB6411 epitope, SEQ ID NO: 34.

KM Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;

KM ovarian cancer; colon cancer; autoimmune disease; immunogen;

KM epitope; human leukocyte antigen; HLA; HLA binding peptide.

OS Homo sapiens.

PM WO200123417-A2.

PD 05-APR-2001.

PF 27-SEP-2000; 2000WO-EP09500.

PR 30-SEP-1999; 99GB-0023154.

PR 07-JUL-2000; 2000GB-0016839.

PA (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.

PI Vinals De Bassols YC;

PI WPI; 2001-316133/33.

PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for

PT prophylactic and therapeutic treatment of cancers, particularly ovarian

PT and colon cancers, autoimmune diseases and related conditions -

PS Example 10; Page 60; 95pp; English.

XX The present sequence is an epitope of human CASB6411. It is a human

XX leukocyte antigen (HLA) binding peptide which may be used to elicit

XX an immune response against CASB6411. The invention relates to CASB6411

XX polypeptides comprising a sequence having at least 70% identity to a

XX sequence of 460 or 154 amino acids fully defined in the specification.

XX CASB6411 polypeptides and polynucleotides are useful for treating a

XX subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are

XX useful in diagnostics, and as vaccines for prophylactic and therapeutic

XX treatment of cancers, particularly ovarian and colon cancers, autoimmune

XX diseases and related conditions. CASB6411 polypeptides are also useful

XX for the structure-based design of agonists, antagonists or inhibitors of

XX the polypeptide.

SQ Sequence 10 AA;

Query Match

Best Local Similarity 5.3%; Score 10; DB 22; Length 10;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 96 TLIVLITITL 105

DB 1 TLIVLITITL 10

RESULT 20

AAB83112

ID AAB83112 standard; Peptide; 10 AA.

AC AAB83112;

DT 29-JUN-2001 (first entry)

DE Human CASB6411 epitope, SEQ ID NO: 38.

KM Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;

KM ovarian cancer; colon cancer; autoimmune disease; immunogen;

KM epitope; human leukocyte antigen; HLA; HLA binding peptide.

OS Homo sapiens.

PM WO200123417-A2.

PD 05-APR-2001.

PF 27-SEP-2000; 2000WO-EP09500.

PR 30-SEP-1999; 99GB-0023154.

PR 07-JUL-2000; 2000GB-0016839.

PA (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.

PI Vinals De Bassols YC;

PI WPI; 2001-316133/33.

PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for

PT prophylactic and therapeutic treatment of cancers, particularly ovarian

PT and colon cancers, autoimmune diseases and related conditions -

PS Example 10; Page 60; 95pp; English.

XX The present sequence is an epitope of human CASB6411. It is a human

XX leukocyte antigen (HLA) binding peptide which may be used to elicit

XX an immune response against CASB6411. The invention relates to CASB6411

XX polypeptides comprising a sequence having at least 70% identity to a

XX sequence of 460 or 154 amino acids fully defined in the specification.

XX CASB6411 polypeptides and polynucleotides are useful for treating a

XX subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are

XX useful in diagnostics, and as vaccines for prophylactic and therapeutic

XX treatment of cancers, particularly ovarian and colon cancers, autoimmune

XX diseases and related conditions. CASB6411 polypeptides are also useful

XX for the structure-based design of agonists, antagonists or inhibitors of

XX the polypeptide.

RESULT 21

AAB83125
ID AAB83125 standard; Peptide; 10 AA.

AC AAB83125;

DT 29-JUN-2001 (first entry)

DE Human CASB6411 epitope, SEQ ID NO: 51.

KM Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;

KM ovarian cancer; colon cancer; autoimmune disease; immunogen;

KM epitope; human leukocyte antigen; HLA; HLA binding peptide.

```
XX OS Homo sapiens.
XX PN WO200123417-A2.
XX XX
XX PD 05-APR-2001.
XX PF 27-SEP-2000; 2000MO-EP09500.
XX PR 30-SEP-1999; 99GB-0023154.
XX PR 07-JUL-2000; 2000GB-0016839.
XX XX
XX PA (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX PI Vinals De Bassols YC;
XX XX
XX DR WPI; 2001-316133/33.
XX XX
XX PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
XX PT prophylactic and therapeutic treatment of cancers, particularly ovarian
XX PT and colon cancers, autoimmune diseases and related conditions -
XX PS Example 10; Page 61; 95pp; English.
XX XX
XX CC The present sequence is an epitope of human CASB6411. It is a human
XX CC leukocyte antigen (HLA) binding peptide which may be used to elicit
XX CC an immune response against CASB6411. The invention relates to CASB6411
XX CC polypeptides comprising a sequence having at least 70% identity to a
XX CC sequence of 460 or 154 amino acids fully defined in the specification.
XX CC CASB6411 polypeptides and polynucleotides are useful for treating a
XX CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
XX CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
XX CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
XX CC diseases and related conditions. CASB6411 polypeptides are also useful
XX CC for the structure-based design of agonists, antagonists or inhibitors of
XX CC the polypeptide.
XX SQ Sequence 10 AA;
XX XX
XX Query Match 5.3%; Score 10; DB 22; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 0.0069;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 131 KMFLIEKLIR 140
XX DB 1 KMFLIEKLIR 10
XX
XX RESULT 22
XX ID AAB83127 standard; Peptide; 10 AA.
XX AC AAB83127;
XX DT 29-JUN-2001 (first entry)
XX DE Human CASB6411 epitope, SEQ ID NO: 53.
XX XX
XX KW Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
XX KW ovarian cancer; colon cancer; autoimmune disease; Immunogen;
XX KW epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX OS Homo sapiens.
XX XX
XX PN WO200123417-A2.
XX PD 05-APR-2001.
XX PF 27-SEP-2000; 2000MO-EP09500.
XX PR 30-SEP-1999; 99GB-0023154.
XX PR 07-JUL-2000; 2000GB-0016839.
XX XX
```

```
PA (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX PI Vinals De Bassols YC;
XX XX
XX DR WPI; 2001-316133/33.
XX XX
XX PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
XX PT prophylactic and therapeutic treatment of cancers, particularly ovarian
XX PT and colon cancers, autoimmune diseases and related conditions -
XX PS Example 10; Page 61; 95pp; English.
XX XX
XX CC The present sequence is an epitope of human CASB6411. It is a human
XX CC leukocyte antigen (HLA) binding peptide which may be used to elicit
XX CC an immune response against CASB6411. The invention relates to CASB6411
XX CC polypeptides comprising a sequence having at least 70% identity to a
XX CC sequence of 460 or 154 amino acids fully defined in the specification.
XX CC CASB6411 polypeptides and polynucleotides are useful for treating a
XX CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
XX CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
XX CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
XX CC diseases and related conditions. CASB6411 polypeptides are also useful
XX CC for the structure-based design of agonists, antagonists or inhibitors of
XX CC the polypeptide.
XX SQ Sequence 10 AA;
XX XX
XX Query Match 5.3%; Score 10; DB 22; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 0.0069;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 137 KLIRIQDMEK 146
XX DB 1 KLIRIQDMEK 10
XX
XX RESULT 23
XX ID AAB83085 standard; Peptide; 9 AA.
XX AC AAB83085;
XX DT 29-JUN-2001 (first entry)
XX DE Human CASB6411 epitope, SEQ ID NO: 11.
XX XX
XX KW Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
XX KW ovarian cancer; colon cancer; autoimmune disease; Immunogen;
XX KW epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX OS Homo sapiens.
XX XX
XX PN WO200123417-A2.
XX PD 05-APR-2001.
XX PF 27-SEP-2000; 2000MO-EP09500.
XX PR 30-SEP-1999; 99GB-0023154.
XX PR 07-JUL-2000; 2000GB-0016839.
XX XX
XX PA (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX XX
XX PI Vinals De Bassols YC;
XX XX
XX DR WPI; 2001-316133/33.
XX XX
XX PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
XX PT prophylactic and therapeutic treatment of cancers, particularly ovarian
XX PT and colon cancers, autoimmune diseases and related conditions -
XX PS Example 10; Page 60; 95pp; English.
XX XX
```

CC The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.

SQ Sequence 9 AA;

Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 22 FILFFPSFT 30
|||||
Db 1 FILFFPSFT 9

RESULT 24
AAB83086
ID AAB83086 standard; Peptide; 9 AA.
XX
AC AAB83086;
XX
DT 29-JUN-2001 (first entry)
XX

DE Human CASB6411 epitope, SEQ ID NO: 12.

KW Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease; immunogen;
KN epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
XX Homo sapiens.

OS
XX
PN WO200123417-A2.
XX
PD 05-APR-2001.
XX

PF 27-SEP-2000; 2000WO-EP09500.

PR 30-SEP-1999; 99GB-0023154.

PR 07-JUL-2000; 2000GB-0016839.

PA (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.

PI Vinals De Bassols YC;

DR WPI; 2001-316133/33.

PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX Example 10; Page 60; 95pp; English.

CC The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.

XX
SQ Sequence 9 AA;

Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 OMWTFEFL 23
|||||
Db 1 OMWTFEFL 9

RESULT 25
AAB83087
ID AAB83087 standard; Peptide; 9 AA.
XX
AC AAB83087;
XX

DT 29-JUN-2001 (first entry)

DE Human CASB6411 epitope, SEQ ID NO: 13.

KW Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease; immunogen;
KN epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
XX Homo sapiens.

OS
XX
PN WO200123417-A2.
XX
PD 05-APR-2001.
XX

PF 27-SEP-2000; 2000WO-EP09500.

PR 30-SEP-1999; 99GB-0023154.

PR 07-JUL-2000; 2000GB-0016839.

PA (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.

PI Vinals De Bassols YC;

DR WPI; 2001-316133/33.

PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX Example 10; Page 60; 95pp; English.

CC The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.

SQ Sequence 9 AA;

Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 16 MMWTFEFL 24
|||||
Db 1 MMWTFEFL 9

```

RESULT 26
AAB83088
ID AAB83088 standard; Peptide; 9 AA.
XX
XX
AC AAB83088;
XX
XX
DT 29-JUN-2001 (first entry)
XX
XX
DE Human CASB6411 epitope, SEQ ID NO: 14.
XX
XX
KM Human: CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease; immunogen;
KM epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
XX
OS Homo sapiens.
XX
XX
PN WO200123417-A2.
XX
XX
PD 05-APR-2001.
XX
XX
PF 27-SEP-2000; 2000MO-EP09500.
XX
XX
PR 30-SEP-1999; 99GB-0023154.
PR 07-JUL-2000; 2000GB-0016839.
XX
XX
PA (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX
XX
PI Vinals De Bassols YC;
XX
XX
DR WPI; 2001-316133/33.
XX
XX
PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX
PS Example 10; Page 60; 95pp: English.
XX
XX
CC The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.
XX
XX
SQ Sequence 9 AA:
XX
XX
Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 133 FLIEKLIRL 141
   |||||||
   1 FLIEKLIRL 9

RESULT 27
AAB83091
ID AAB83091 standard; Peptide; 9 AA.
XX
XX
AC AAB83091;
XX
XX
DT 29-JUN-2001 (first entry)
XX
XX
DE Human CASB6411 epitope, SEQ ID NO: 17.
XX
XX
KM Human: CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease; immunogen;
KM epitope; human leukocyte antigen; HLA; HLA binding peptide.

```

```

KM epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
XX
OS Homo sapiens.
XX
XX
PN WO200123417-A2.
XX
XX
PD 05-APR-2001.
XX
XX
PF 27-SEP-2000; 2000MO-EP09500.
XX
XX
PR 30-SEP-1999; 99GB-0023154.
PR 07-JUL-2000; 2000GB-0016839.
XX
XX
PA (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX
XX
PI Vinals De Bassols YC;
XX
XX
DR WPI; 2001-316133/33.
XX
XX
PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX
PS Example 10; Page 60; 95pp: English.
XX
XX
CC The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.
XX
XX
SQ Sequence 9 AA:
XX
XX
Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 35 TLATITWRL 43
   |||||||
   1 TLATITWRL 9

RESULT 28
AAB83133
ID AAB83133 standard; Peptide; 9 AA.
XX
XX
AC AAB83133;
XX
XX
DT 29-JUN-2001 (first entry)
XX
XX
DE Human CASB6411 epitope, SEQ ID NO: 59.
XX
XX
KM Human: CASB6411; vaccine; gene therapy; immunoprophylaxis;
KM ovarian cancer; colon cancer; autoimmune disease; immunogen;
KM epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
XX
OS Homo sapiens.
XX
XX
PN WO200123417-A2.
XX
XX
PD 05-APR-2001.
XX
XX
PF 27-SEP-2000; 2000MO-EP09500.
XX
XX
PR 30-SEP-1999; 99GB-0023154.
PR 07-JUL-2000; 2000GB-0016839.

```



```

XX (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX
XX Vinals De Bassols YC;
XX
XX WPI; 2001-316133/33.
XX
XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
XX prophylactic and therapeutic treatment of cancers, particularly ovarian
XX and colon cancers, autoimmune diseases and related conditions -
XX
XX Example 10; Page 62; 95pp; English.
XX
XX The present sequence is an epitope of human CASB6411. It is a human
XX leukocyte antigen (HLA) binding peptide which may be used to elicit
XX an immune response against CASB6411. The invention relates to CASB6411
XX polypeptides comprising a sequence having at least 70% identity to a
XX sequence of 460 or 154 amino acids fully defined in the specification.
XX CASB6411 polypeptides and polynucleotides are useful for treating a
XX subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
XX useful in diagnostics, and as vaccines for prophylactic and therapeutic
XX treatment of cancers, particularly ovarian and colon cancers, autoimmune
XX diseases and related conditions. CASB6411 polypeptides are also useful
XX for the structure-based design of agonists, antagonists or inhibitors of
XX the polypeptide.
XX
XX Sequence 9 AA:
XX
XX Query Match 4.7%; Score 9; DB 22; Length 9;
XX Best Local Similarity 100.0%; Pred. No. 7.8e+05;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 89 VHFIFLTL 97
XX | | | | | | | |
XX Db 1 VHFIFLTL 9
XX
XX RESULT 29
XX AAB83138
XX ID AAB83138 standard; Peptide: 9 AA.
XX
XX AAB83138;
XX
XX 29-JUN-2001 (first entry)
XX
XX Human CASB6411 epitope, SEQ ID NO: 64.
XX
XX Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
XX ovarian cancer; colon cancer; autoimmune disease; immunogen;
XX epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
XX Homo sapiens.
XX
XX WO200123417-A2.
XX
XX 05-APR-2001.
XX
XX 27-SEP-2000; 2000WO-EP09500.
XX
XX 30-SEP-1999; 99GB-0023154.
XX
XX 07-JUL-2000; 2000GB-0016839.
XX
XX (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX
XX Vinals De Bassols YC;
XX
XX WPI; 2001-316133/33.
XX
XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
XX prophylactic and therapeutic treatment of cancers, particularly ovarian
XX and colon cancers, autoimmune diseases and related conditions -
XX
XX Example 10; Page 62; 95pp; English.

```

```

XX The present sequence is an epitope of human CASB6411. It is a human
XX leukocyte antigen (HLA) binding peptide which may be used to elicit
XX an immune response against CASB6411. The invention relates to CASB6411
XX polypeptides comprising a sequence having at least 70% identity to a
XX sequence of 460 or 154 amino acids fully defined in the specification.
XX CASB6411 polypeptides and polynucleotides are useful for treating a
XX subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
XX useful in diagnostics, and as vaccines for prophylactic and therapeutic
XX treatment of cancers, particularly ovarian and colon cancers, autoimmune
XX diseases and related conditions. CASB6411 polypeptides are also useful
XX for the structure-based design of agonists, antagonists or inhibitors of
XX the polypeptide.
XX
XX Sequence 9 AA:
XX
XX Query Match 4.7%; Score 9; DB 22; Length 9;
XX Best Local Similarity 100.0%; Pred. No. 7.8e+05;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 93 FITLTLVLI 101
XX | | | | | | | |
XX Db 1 FITLTLVLI 9
XX
XX RESULT 30
XX AAB83139
XX ID AAB83139 standard; Peptide: 9 AA.
XX
XX AAB83139;
XX
XX 29-JUN-2001 (first entry)
XX
XX Human CASB6411 epitope, SEQ ID NO: 65.
XX
XX Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
XX ovarian cancer; colon cancer; autoimmune disease; immunogen;
XX epitope; human leukocyte antigen; HLA; HLA binding peptide.
XX
XX Homo sapiens.
XX
XX WO200123417-A2.
XX
XX 05-APR-2001.
XX
XX 27-SEP-2000; 2000WO-EP09500.
XX
XX 30-SEP-1999; 99GB-0023154.
XX
XX 07-JUL-2000; 2000GB-0016839.
XX
XX (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX
XX Vinals De Bassols YC;
XX
XX WPI; 2001-316133/33.
XX
XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
XX prophylactic and therapeutic treatment of cancers, particularly ovarian
XX and colon cancers, autoimmune diseases and related conditions -
XX
XX Example 10; Page 62; 95pp; English.
XX
XX The present sequence is an epitope of human CASB6411. It is a human
XX leukocyte antigen (HLA) binding peptide which may be used to elicit
XX an immune response against CASB6411. The invention relates to CASB6411
XX polypeptides comprising a sequence having at least 70% identity to a
XX sequence of 460 or 154 amino acids fully defined in the specification.
XX CASB6411 polypeptides and polynucleotides are useful for treating a
XX subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
XX useful in diagnostics, and as vaccines for prophylactic and therapeutic
XX treatment of cancers, particularly ovarian and colon cancers, autoimmune
XX diseases and related conditions. CASB6411 polypeptides are also useful
XX for the structure-based design of agonists, antagonists or inhibitors of
XX the polypeptide.

```

CC the polypeptide.
XX
SQ Sequence 9 AA;

Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 107 WOITEGRKI 115
DB 1 WOITEGRKI 9

RESULT 31
AAB83142
ID AAB83142 standard; Peptide; 9 AA.

AC AAB83142;
DT 29-JUN-2001 (first entry)

DE Human CASB6411 epitope, SEQ ID NO: 68.

XX Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
KW ovarian cancer; colon cancer; autoimmune disease; immunogen;
KW epitope; human leukocyte antigen; HLA; HLA binding peptide.

OS Homo sapiens.

PA WO200123417-A2.

PI Vinals De Bassols YC;

DR WPI; 2001-316133/33.

XX 30-SEP-1999; 99GB-0023154.
PR 07-JUL-2000; 2000GB-0016839.

XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.

PI Vinals De Bassols YC;

DR WPI; 2001-316133/33.

XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -

XX Example 10; Page 62; 95pp; English.

XX The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.

XX Sequence 9 AA;

Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 11 WRASOMMTF 19
DB 1 WRASOMMTF 9

RESULT 32
AAB83143
ID AAB83143 standard; Peptide; 9 AA.

AC AAB83143;
DT 29-JUN-2001 (first entry)

DE Human CASB6411 epitope, SEQ ID NO: 69.

XX Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;
KW ovarian cancer; colon cancer; autoimmune disease; immunogen;
KW epitope; human leukocyte antigen; HLA; HLA binding peptide.

OS Homo sapiens.

PA WO200123417-A2.

PI Vinals De Bassols YC;

DR WPI; 2001-316133/33.

XX 30-SEP-1999; 99GB-0023154.
PR 07-JUL-2000; 2000GB-0016839.

XX (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.

PI Vinals De Bassols YC;

DR WPI; 2001-316133/33.

XX Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -

XX Example 10; Page 62; 95pp; English.

XX The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.

XX Sequence 9 AA;

Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 91 FFFITLTLIV 99
DB 1 FFFITLTLIV 9

RESULT 33
AAB83145
ID AAB83145 standard; Peptide; 9 AA.

AC AAB83145;

DT 29-JUN-2001 (first entry)

DE Human CASB6411 epitope, SEQ ID NO: 71.

XX Human; CASB6411; vaccine; gene therapy; immunoprophylaxis;

KW ovarian cancer; colon cancer; autoimmune disease; immunogen;
KW epitope; human leukocyte antigen; HLA; HLA binding peptide.
OS Homo sapiens.
PN WO200123417-A2.
XX
XX
PD 05-APR-2001.
XX
XX
PF 27-SEP-2000; 2000WO-EP09500.
XX
XX
PR 30-SEP-1999; 99GB-0023154.
PR 07-JUL-2000; 2000GB-0016839.
XX
XX
PA (SMK) SMITHKLINE BEECHAM BIOLOGICALS.
PI Vinals De Bassols VC;
XX
XX
DR WPI; 2001-316133/33.
XX
XX
PT Novel CASB6411 polypeptides useful in diagnostics, and as vaccines for
PT prophylactic and therapeutic treatment of cancers, particularly ovarian
PT and colon cancers, autoimmune diseases and related conditions -
XX
XX
PS Example 10; Page 62; 95pp; English.
XX
XX
CC The present sequence is an epitope of human CASB6411. It is a human
CC leukocyte antigen (HLA) binding peptide which may be used to elicit
CC an immune response against CASB6411. The invention relates to CASB6411
CC polypeptides comprising a sequence having at least 70% identity to a
CC sequence of 460 or 154 amino acids fully defined in the specification.
CC CASB6411 polypeptides and polynucleotides are useful for treating a
CC subject by immunoprophylaxis or therapy. The CASB6411 polypeptides are
CC useful in diagnostics, and as vaccines for prophylactic and therapeutic
CC treatment of cancers, particularly ovarian and colon cancers, autoimmune
CC diseases and related conditions. CASB6411 polypeptides are also useful
CC for the structure-based design of agonists, antagonists or inhibitors of
CC the polypeptide.
SQ Sequence 9 AA;

Query Match 4.7%; Score 9; DB 22; Length 9;
Best Local Similarity 100.0%; Pred. No. 7.8e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 FILITLIVL 100
|||
Db 1 FILITLIVL 9

RESULT 34
AAM90088
ID AAM90088 standard; Protein; 39 AA.
XX
XX
AC AAM90088;
XX
XX
DT 07-NOV-2001 (first entry)
XX
XX
DE Human immune/haematopoietic antigen SEQ ID NO:17681.
XX
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis.
XX
OS Homo sapiens.
XX
XX
PN WO200157182-A2.
XX
XX
PD 09-AUG-2001.
XX
XX
PF 17-JAN-2001; 2001WO-US01354.
XX
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.

PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226868.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 08-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.

XX	02-OCT-2000;	2000US-0237039.
PR	02-OCT-2000;	2000US-0237040.
PR	13-OCT-2000;	2000US-0239935.
PR	13-OCT-2000;	2000US-0239937.
PR	20-OCT-2000;	2000US-0240960.
PR	20-OCT-2000;	2000US-0241121.
PR	20-OCT-2000;	2000US-0241185.
PR	20-OCT-2000;	2000US-0241186.
PR	20-OCT-2000;	2000US-0241187.
PR	20-OCT-2000;	2000US-0241808.
PR	20-OCT-2000;	2000US-0241809.
PR	01-NOV-2000;	2000US-0244617.
PR	08-NOV-2000;	2000US-0246474.
PR	08-NOV-2000;	2000US-0246475.
PR	08-NOV-2000;	2000US-0246476.
PR	08-NOV-2000;	2000US-0246477.
PR	08-NOV-2000;	2000US-0246478.
PR	08-NOV-2000;	2000US-0246523.
PR	08-NOV-2000;	2000US-0246524.
PR	08-NOV-2000;	2000US-0246525.
PR	08-NOV-2000;	2000US-0246526.
PR	08-NOV-2000;	2000US-0246527.
PR	08-NOV-2000;	2000US-0246528.
PR	08-NOV-2000;	2000US-0246532.
PR	08-NOV-2000;	2000US-0246603.
PR	08-NOV-2000;	2000US-0246609.
PR	08-NOV-2000;	2000US-0246610.
PR	08-NOV-2000;	2000US-0246613.
PR	17-NOV-2000;	2000US-0249207.
PR	17-NOV-2000;	2000US-0249208.
PR	17-NOV-2000;	2000US-0249209.
PR	17-NOV-2000;	2000US-0249210.
PR	17-NOV-2000;	2000US-0249211.
PR	17-NOV-2000;	2000US-0249212.
PR	17-NOV-2000;	2000US-0249213.
PR	17-NOV-2000;	2000US-0249214.
PR	17-NOV-2000;	2000US-0249215.
PR	17-NOV-2000;	2000US-0249216.
PR	17-NOV-2000;	2000US-0249217.
PR	17-NOV-2000;	2000US-0249218.
PR	17-NOV-2000;	2000US-0249244.
PR	17-NOV-2000;	2000US-0249245.
PR	17-NOV-2000;	2000US-0249264.
PR	17-NOV-2000;	2000US-0249265.
PR	17-NOV-2000;	2000US-0249297.
PR	17-NOV-2000;	2000US-0249299.
PR	17-NOV-2000;	2000US-0249300.
PR	01-DEC-2000;	2000US-0250160.
PR	01-DEC-2000;	2000US-0250391.
PR	05-DEC-2000;	2000US-0251030.
PR	05-DEC-2000;	2000US-0251988.
PR	05-DEC-2000;	2000US-0256719.
PR	06-DEC-2000;	2000US-0251479.
PR	08-DEC-2000;	2000US-0251856.
PR	08-DEC-2000;	2000US-0251868.
PR	08-DEC-2000;	2000US-0251869.
PR	08-DEC-2000;	2000US-0251889.
PR	08-DEC-2000;	2000US-0251990.
PR	11-DEC-2000;	2000US-0254097.
PR	05-JAN-2001;	2001US-0259678.
XX		
PA	(HUMA-)	HUMAN GENOME SCI INC.
XX		
PI	Rosen CA,	Barash SC, Ruben SM;
XX		
DR	WPI;	2001-483426/52.
XX		
DR	N-PSDB;	AAK62869.
XX		
PT	Nucleic acids encoding human immune/hematopoietic antigen polypeptides	
XX	useful for preventing, diagnosing and/or treating cancers and	
PT	metastasis -	
XX		

PS	Claim 11, SEQ ID NO 17681; 3071pp + Sequence listing; English.
XX	AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC	amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic
CC	activity, and can be used in gene therapy and vaccine production. (I)
CC	proteins and polynucleotides may be used in the prevention, diagnosis and
CC	treatment of diseases associated with inappropriate (I) expression. For
CC	example, they may be used to treat disorders associated with decreased
CC	expression by rectifying mutations or deletions in a patient's genome
CC	that affect the activity of (I) by expressing inactive proteins or to
CC	supplement the patients own production of (I). Additionally, (I)
CC	polynucleotides may be used to produce the secreted (I), by inserting
CC	the nucleic acids into a host cell and culturing the cell to express the
CC	protein. (I) proteins and polynucleotides may be used to prevent,
CC	diagnose and treat immune/haematopoietic-related diseases, especially
CC	cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC	to AAK7694 represent human immune/haematopoietic antigen genomic
CC	sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC	represent sequences used in the exemplification of the present invention.
XX	Sequence 39 AA:
SQ	
Query Match	4.2%; Score 8; DB 22; Length 39;
Best Local Similarity	100.0%; Pred. No. 2.2;
Matches	8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	175 LDLRSRRS 182
Db	12 LDLRSRRS 19
RESULT 35	
AAO00897	AAO00897 standard; Protein; 85 AA.
XX	AAO00897;
AC	
XX	06-NOV-2001 (first entry)
XX	
DE	
XX	Human polypeptide SEQ ID NO 14789.
XX	
KM	Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KM	vaccine; peptide therapy; stem cell growth factor; leukaemias;
KM	tissue growth factor; immunomodulatory; cancer; Leukaemia;
KM	nervous system disorders; arthritis; inflammation.
XX	
OS	Homo sapiens.
XX	
PN	WO200164835-A2.
XX	
PD	07-SEP-2001.
XX	
PF	26-FEB-2001; 2001WO-US04927.
XX	
PR	28-FEB-2000; 2000US-0515126.
XX	
PA	18-MAY-2000; 2000US-0577409.
XX	
PA	(HYSE-) HYSEQ INC.
XX	
PI	Tang YF, Liu C, Drmanac RT;
XX	
DR	WPI; 2001-514838/56.
XX	
DR	N-PSDB; AAI80828.
XX	
PT	Isolated nucleic acids and polypeptides, useful for preventing
PT	diagnosing and treating e.g. leukaemia, inflammation and immune
PT	disorders -
XX	
PS	Claim 20; SEQ ID NO 14789; 1399pp + Sequence listing; English.
XX	
CC	The invention relates to human polynucleotides (AAI79941-AAI93841) and
CC	the encoded proteins (AAO00010-AAO13910) that exhibit activity elating to
CC	cytokine, cell proliferation or cell differentiation or which may induce

CC production of other cytokines in other cell populations. The
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
 CC peptide therapy. The polypeptides have various cytokine-like activities,
 CC e.g. stem cell growth factor activity, haematopoiesis regulating
 CC activity, tissue growth factor activity, immunomodulatory activity and
 CC activin/inhibin activity and may be useful in the diagnosis and/or
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
 CC inflammation.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 CC
 XX

SQ Sequence 85 AA:

Query Match 4.2%; Score 8; DB 22; Length 85;
 Best Local Similarity 100.0%; Pred. No. 4.1;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 22 FLTFPPSF 29
 |||||
 Db 56 FLTFPPSF 63

RESULT 36
 AAB96431
 ID AAB96431 standard; Protein: 335 AA.
 XX
 AC AAB96431;

DT 29-OCT-2001 (first entry)
 XX

DE Putative P. abyssi integral membrane protein #4.
 XX

KW Hyperthermophilic archaeon; hyperthermophilic protein.
 XX

OS Pyrococcus abyssi.
 XX

PN FR2792651-A1.
 XX

PD 27-OCT-2000.
 XX

PF 21-APR-1999; 99FR-0005034.
 XX

PR 21-APR-1999; 99FR-0005034.
 XX

PA (CNRS) CNRS CENT NAT RECH SCI.
 XX (IFRE-) IFREMER INST FR RECH EXPL MER.

PI Forterre P, Thierry JC, Prieur D, Dietrich J, Lecompte O;
 XX Querellou J, Weissenbach J, Saurin W, Hellig R;

DR WPI: 2001-126236/14.
 XX

PT New nucleotide sequences isolated from Pyrococcus abyssi encode
 XX proteins useful in industry -
 XX

PS Claim 7; Pages 1125-1126; 1657pp; French.
 XX

CC The present invention relates to the genomic sequence of Pyrococcus
 CC abyssi (see AAF6431 and AAH41223-7) and P. abyssi proteins. P. abyssi is
 CC a hyperthermophilic archaeon, which is isolated from deep-sea
 CC hydrothermal vents. The present sequence is one such P. abyssi protein.
 CC The proteins of the present invention have various potential industrial
 CC uses, since the proteins are stable at very high temperatures, some up to
 CC 110 degrees centigrade.
 CC Note: This patent is in the same patent family as WO200065062, which
 CC contains additional sequences as shown in AAB99132-AAB99143,
 CC AAH5993-AAH59920 and AAG6436.
 CC
 XX

SQ Sequence 335 AA:

Query Match 4.2%; Score 8; DB 22; Length 335;
 Best Local Similarity 100.0%; Pred. No. 13;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 94 IITLIVLI 101
 |||||
 Db 158 IITLIVLI 165

RESULT 37
 AAM57623
 ID AAM57623 standard; peptide: 10 AA.
 XX
 AC AAM57623;

DT 20-AUG-1998 (first entry)
 XX

DE T-cell receptor CDR3 #16.
 XX

KW T-cell receptor; complementarity determining region 3; immunomodulator;
 KW cancer therapy assessment; tumour infiltration; T-cell generation;
 KW malignant tumour; immune response; tumour regression; therapy;
 KW hapten-modified syngeneic human tumour cell.
 XX

OS Homo sapiens.
 XX

PN WO9814206-A1.
 XX

PD 09-APR-1998.
 XX

PF 02-OCT-1997; 97WO-US15741.
 XX

PR 04-OCT-1996; 96US-0027002.
 XX

PA (UYE-) UNIV JEFFERSON THOMAS.
 XX

PI Anichini A, Berd D, Parmiani G, Sensi M;
 XX

DR WPI: 1998-239852/21.
 XX

PT Producing tumour-infiltrating T cells that generate immune response
 XX against tumour - by immunisation with hapten-modified syngeneic
 XX tumour cells, used for cancer treatment
 XX

PS Claim 19; Page 44; 59pp; English.
 XX

CC This sequence represents a complementarity determining region 3 (CDR3) of
 CC a T-cell receptor. The CDR3 sequences are detected in a method for
 CC assessing effect of cancer therapy comprising administering an
 CC immunomodulator comprising detecting, before and after therapy, T-cells
 CC expressing a T-cell receptor and able to infiltrate the tumour, and
 CC rating the treatment as effective if the T-cells have increased in number
 CC by at least 2 standard deviations as a result of therapy. The CDR3
 CC sequences can also be used in a method for the generation of T-cells that
 CC infiltrate a malignant tumour and participate in an immune response
 CC against it, that comprises: (a) immunising the patient with
 CC hapten-modified, syngeneic human tumour cells of the same type as the
 CC patient's tumour, in a non-growth state; and (b) isolating the T-cells
 CC elicited in vivo, from the patient's tumour. The T-cells are used to
 CC treat (cause regression of) tumours, both primary and metastatic,
 CC particularly melanoma, lymphoma, adenocarcinoma, sarcoma or non-solid
 CC tumours, e.g. cancer of ovary, colon, breast, lung, kidney or prostate,
 CC or leukaemia, particularly acute myelogenous leukaemia. Antigens for
 CC stimulation of a specific T-cell response are useful as candidate
 CC vaccines and as diagnostic markers for detecting early metastases.
 CC
 XX

SQ Sequence 10 AA:

Query Match 3.7%; Score 7; DB 19; Length 10;
 Best Local Similarity 100.0%; Pred. No. 7;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 117 IRLHEQ 123
 |||||
 Db 3 IRLHEQ 9

```

RESULT 38
AAU88613
ID AAY88613 standard; peptide; 10 AA.
XX
XX AAY88613;
AC
XX 17-AUG-2000 (first entry)
DT
XX T-cell receptor complementarity determining region 3 peptide #16.
DE
XX T-cell receptor; complementarity determining region; CDR; cancer therapy;
KW haptens modified tumour cell; vaccine; tumour; treatment.
XX
XX Homo sapiens.
OS
XX MO200020564-A1.
PN
XX 13-APR-2000.
PD
XX 02-OCT-1998; 98WO-US20888.
PF
XX 02-OCT-1998; 98WO-US20888.
PR
XX 02-OCT-1998; 98WO-US20888.
PA (UYJE-) UNIV JEFFERSON THOMAS.
PA (NASR-) INST NAZ STUDIO DEI TUMORI.
XX
XX Berd D, Parmiani G, Anichini A, Sensi M;
XX WPI; 2000-303758/26.
DR
XX T cells having the property of infiltrating a malignant tumour and
PT participating in an immune response directed against the tumour, useful
PT for treatment of various cancers -
XX
XX Claim 19; Page 32; 63pp; English.
XX
XX The present invention relates to a method for generating T cells having
CC the property of infiltrating a malignant human tumour and participating
CC in an immune response directed against the tumour. The method comprises
CC immunising a human with a composition comprising a hapten-modified
CC syngeneic human tumour cell, in a no growth phase, and isolating patient
CC T cells that have been elicited in vivo from the tumour after
CC administration of the composition. Methods are also included for
CC assessing the effectiveness of a cancer therapy. The method involves
CC detecting an increase in T cells expressing a T cell receptor (capable of
CC infiltrating the tumour) after the administration of a cancer
CC therapeutic, compared with the T cell levels prior to administration. The
CC present sequence represents a T cell receptor complementarity determining
CC region (CDR) peptide. Detection of this peptide may be used as an
CC indication of the effectiveness of a cancer therapy. The isolated tumour
CC cells act as a vaccine and raise an immune response directed against the
CC tumour. The isolated T cells are useful for the treatment of various
CC cancers.
XX
XX
SQ Sequence 10 AA;

```

Query Match 3.7%; Score 7; DB 21; Length 10;
 Best Local Similarity 100.0%; Pred. No. 7;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 117 IRLHEQ 123
DB 3 IRLHEQ 9

```

RESULT 39
 AAU60753
 ID AAU60753 standard; protein; 61 AA.
 XX
 AC AAU60753;
 XX

```

DT 27-FEB-2002 (first entry)
XX
XX Propionibacterium acnes immunogenic protein #21649.
DE
XX
XX SAPHO syndrome; synovitis; acne; pustulosis; hyperostosis; osteomyelitis;
KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KW dermatological; osteopathic; neuroprotectant.
XX
XX Propionibacterium acnes.
OS
XX
XX WO200181581-A2.
PN
XX 01-NOV-2001.
PD
XX 20-APR-2001; 2001WO-US12865.
PF
XX 21-APR-2000; 2000US-199047P.
PR 02-JUN-2000; 2000US-208841P.
PR 07-JUL-2000; 2000US-216747P.
XX
XX (CORI-) CORIXA CORP.
PA
XX Skelky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;
XX
XX WPI; 2001-616774/71.
DR N-PSDB; AAS59612.
XX
XX Propionibacterium acnes polypeptides and nucleic acids useful for
PT vaccinating against and diagnosing infections, especially useful for
PT treating acne vulgaris -
XX
XX Example 1; SEQ ID No 21948; 1069pp; English.
XX
XX Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
CC polypeptides. The proteins and their associated DNA sequences are used in
CC the treatment, prevention and diagnosis of medical conditions caused by
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
CC pustulosis, hyperostosis and osteomyelitis), uveitis and endophthalmitis.
CC P. acnes is also involved in infections of bone, joints and the central
CC nervous system, however it is particularly involved in the inflammatory
CC lesions associated with acne vulgaris. A method for detecting the
CC presence or absence of P. acnes in a patient comprises contacting a
CC sample with a binding agent that binds to the proteins of the invention
CC and determining the amount of bound protein in the sample. The
CC polypeptides may be used as antigens in the production of antibodies
CC specific for P. acnes proteins. These antibodies can be used to
CC downregulate expression and activity of P. acnes polypeptides and
CC therefore treat P. acnes infections. The antibodies may also be used as
CC diagnostic agents for determining P. acnes presence, for example, by
CC enzyme linked immunosorbent assay (ELISA).
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at http://wipo.int/pub/published\_pct\_sequences.
XX
XX
SQ Sequence 61 AA;

```

Query Match 3.7%; Score 7; DB 22; Length 61;
 Best Local Similarity 100.0%; Pred. No. 31;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 177 LRSRSRV 183
DB 7 LRSRSRV 13

```

RESULT 40
 AAU54686
 ID AAU54686 standard; protein; 69 AA.
 XX
 AC AAU54686;
 XX

DT 27-FEB-2002 (first entry)
XX
DE Propionibacterium acnes immunogenic protein #15582.
XX
XX
KW SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KW dermatological; osteopathic; neuroprotectant.
XX
OS Propionibacterium acnes.
XX
PN WO200181581-A2.
XX
PD 01-NOV-2001.
XX
PE 20-APR-2001; 2001WO-US12865.
XX
PF 21-APR-2000; 2000US-199047P.
PR 02-JUN-2000; 2000US-208841P.
PR 07-JUL-2000; 2000US-216747P.
XX
PA (CORI-) CORIXA CORP.
XX
PI Skeiky YAM, Persing DH, Mitcham JL, Wang SS, Bhatia A;
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;
XX
DR WPI: 2001-616774/71.
DR N-PSDB: AAS59566.
XX
PT Propionibacterium acnes polypeptides and nucleic acids useful for
PT vaccinating against and diagnosing infections, especially useful for
PT treating acne vulgaris -
XX
PS Example 1: SEQ ID No 15881; 1069pp; English.
XX
CC Sequences AU39105-AU068017 represent Propionibacterium acnes immunogenic
CC polypeptides. The proteins and their associated DNA sequences are used in
CC the treatment, prevention and diagnosis of medical conditions caused by
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
CC P. acnes is also involved in infections of bone, joints and the central
CC nervous system, however it is particularly involved in the inflammatory
CC lesions associated with acne vulgaris. A method for detecting the
CC presence or absence of P. acnes in a patient comprises contacting a
CC sample with a binding agent that binds to the proteins of the invention
CC and determining the amount of bound protein in the sample. The
CC polypeptides may be used as antigens in the production of antibodies
CC specific for P. acnes proteins. These antibodies can be used to
CC downregulate expression and activity of P. acnes polypeptides and
CC therefore treat P. acnes infections. The antibodies may also be used as
CC diagnostic agents for determining P. acnes presence, for example, by
CC enzyme linked immunosorbent assay (ELISA).
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 69 AA:
XX
Query Match 3.7%; Score 7; DB 22; Length 69;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 175 LLDLRNR 181
DB 5 LLDLRNR 11
RESULT 41
ABP07407
ID ABP07407 standard; Protein; 111 AA.
XX
AC ABP07407;
XX

DT 24-JUN-2002 (first entry)
XX
DE Human ORFX protein sequence SEQ ID NO:14796.
XX
XX
KW Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
KW hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
KW degenerative disorder; osteoarthritis; neurodegenerative disorder;
KW cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
KW hypertension; hypothyroidism; cholesterol ester storage disease;
KW immune deficiency; immune disorder; infectious disease;
KW autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
KW myasthenia gravis.
XX
OS Homo sapiens.
XX
PN WO200192523-A2.
XX
PD 06-DEC-2001.
XX
PF 29-MAY-2001; 2001WO-US10836.
XX
PR 30-MAY-2000; 2000US-206132P.
PR 29-AUG-2000; 2000US-228716P.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shinkets RA, Leach MD;
XX
PI WPI: 2002-106308/14.
XX
DR N-PSDB: ABN23159.
XX
PT Novel human polypeptides and polynucleotides useful for diagnosing,
PT preventing and treating cardiovascular disease, neurodegenerative,
PT hyperproliferative disorders and autoimmune disorders -
XX
PS Disclosure: SEQ ID 14796; 1037pp; English.
XX
CC The present invention describes substantially purified human proteins
CC (referred to as open reading frame, ORFX, where x is 1-11491 (see Table 1
CC in the specification). ABN15762 to ABN27252 encode the human ORFX
CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
CC treating or preventing a pathology associated with an ORFX-associated
CC disorder in humans, and in the manufacture of a medicament for treating a
CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
CC sequences can be used in gene therapy. ORFX sequences can be used in the
CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
CC osteoarthritis, neurodegenerative disorders, disorders related to organ
CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
CC storage disease, various immune deficiencies and disorders, infectious
CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
CC bone degenerative disorders, or periodontal disease, and for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues and conditions resulting from
CC systemic cytokine damage.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 111 AA:
XX
Query Match 3.7%; Score 7; DB 23; Length 111;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 63 YSWIDTL 69
DB 59 YSWIDTL 65

RESULT 42
AAU07667 standard; Protein; 115 AA.
AC AAU07667;
XX
XX 04-DEC-2001 (first entry)
XX
XX Rainbow trout preprosomatostatin II (PPSS-II'), polypeptide.
DE
XX
XX Rainbow trout; somatostatin; preprosomatostatin; hypersecretion; PPSS-I;
KM PPSS-II'; PPSS-II'; endocrine tumour; pituitary gland; glucagonoma; AIDS;
KM gastroenteropancreatic tissue; acromegaly; gastrinoma; diabetes mellitus;
KM carcinoid syndrome; cell proliferation; apoptosis; growth hormone;
KM glucagon; acquired immunodeficiency syndrome; neurological disorder; HIV;
KM epilepsy; Alzheimer's disease; Huntington's disease; neuroprotective;
KM neoplasm; metastasis; gene therapy; antidiabetic; nootropic; cytostatic;
KM anti-human immunodeficiency virus; osteopathic; anticonvulsant.
XX
XX
XX Oncorhynchus mykiss.
OS
XX
FH Key Location/Qualifiers
FT Peptide 1..25
FT /note= "Signal peptide"
FT Protein 1..87
FT /note= "PPSS-II' pre-sequence"
FT Protein 26..115
FT /note= "Mature PPSS-II' "
FT Misc-difference 74
FT /note= "Encoded by CAA"
FT Peptide 88..101
FT /note= "PPSS-II' pro-sequence"
FT Peptide 88..115
FT /note= "Prosomatostatin II' "
FT Cleavage-site 100..101
FT /note= "Dibasic cleavage site"
FT Peptide 102..115
FT /note= "SS-14 variant peptide"
XX
XX CA2325169-A1.
XX
XX 03-JUN-2001.
PD
XX
XX 01-DEC-2000; 2000CA-2325169.
PF
XX
XX 03-DEC-1999; 99DS-0168934.
PR
XX
XX (NDSU-) NDSU RES FOUND.
PA
XX
XX Sheridan MA, Moore CA, Kittelson JD;
PI
XX
XX WPI: 2001-425997/46.
DR N-PSDB; AAS12934.
XX
XX
XX New somatostatin polypeptides derived from *Oncorhynchus mykiss*, useful
PT for treating diabetes mellitus, acromegaly, gastrinoma, acquired
PT immunodeficiency syndrome and neurological disorders -
XX
XX Claim 2; Fig 3; 52pp; English.
XX
XX The invention relates to an *Oncorhynchus mykiss* somatostatin polypeptide
CC containing a portion of preprosomatostatin I (PPSS-I) and/or a portion of
CC preprosomatostatin II (PPSS-II). The protein sequences and their
CC associated polynucleotides are useful for identifying modified
CC somatostatin polypeptides which functions as a somatostatin agonist useful
CC for research, therapeutics or diagnostics, including medical and
CC veterinary applications. The wild-type somatostatin and its modified
CC version are useful for treating hypersecretion from endocrine tumours in
CC the pituitary (e.g. acromegaly) or gastroenteropancreatic tissues (e.g.
CC gastrinoma, glucagonoma, carcinoid syndrome), to cause tumour shrinkage
CC through their effects on cell proliferation and apoptosis and as adjuncts
CC in the treatment of diabetes mellitus via inhibition of growth hormone

CC and glucagon. In addition, dysfunctional somatostatin secretion is
CC associated with acquired immunodeficiency syndrome (AIDS) and various
CC neurological disorders (e.g. epilepsy, Alzheimer's disease and
CC Huntington's disease) and somatostatin antagonists are effective in the
CC treatment of such conditions. Nucleic acids encoding the polypeptides are
CC useful in gene therapy and fusion peptides can be targeted to neoplasms
CC and their metastases, inhibiting the release of their secretory products.
CC This sequence represents O. Mykiss PPSS-II' protein.
CC Note: The features for this sequence are specifically claimed in the
CC specification.
XX
XX
SQ Sequence 115 AA;
XX
XX Query Match 3.7%; Score 7; DB 22; Length 115;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 175 LDIRSRR 181
|||||
Db 30 LDIRSRR 36
XX
XX
RESULT 43
AAU50688
ID AAU50688 standard; Protein; 158 AA.
XX
XX AAU50688;
AC
XX
XX 27-FEB-2002 (first entry)
DT
XX
XX Propionibacterium acnes immunogenic protein #11584.
DE
XX
XX SAPHO syndrome; synovitis; acne; pustulosis; hyperostosis; osteomyelitis;
KM uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KM inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KM dermatological; osteopathic; neuroprotectant.
XX
XX Propionibacterium acnes.
OS
XX
XX W0200181581-A2.
PN
XX
XX 01-NOV-2001.
PD
XX
XX 20-APR-2001; 2001WO-US12865.
PF
XX
XX 21-APR-2000; 2000US-199047P.
PR 02-JUN-2000; 2000US-208841P.
PR 07-JUL-2000; 2000US-216747P.
XX
XX (CORI-) CORIXA CORP.
PA
XX
XX Skelky YAM, Persing DH, Mitcham JL, Wang SS, Bhatla A;
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;
PI
XX
XX WPI: 2001-616774/71.
DR N-PSDB; AAS59549.
XX
XX Propionibacterium acnes polypeptides and nucleic acids useful for
PT vaccinating against and diagnosing infections, especially useful for
PT treating acne vulgaris -
XX
XX
XX Example 1; SEQ ID No 11883; 10699p; English.
PS
XX
XX Sequences AAU93105-AAU68017 represent *Propionibacterium acnes* immunogenic
CC polypeptides. The proteins and their associated DNA sequences are used in
CC the treatment, prevention and diagnosis of medical conditions caused by
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
CC pustulosis, hyperostosis and osteomyelitis), uveitis and endophthalmitis.
CC P. acnes is also involved in infections of bone, joints and the central
CC nervous system, however it is particularly involved in the inflammatory
CC lesions associated with acne vulgaris. A method for detecting the
CC presence or absence of P. acnes in a patient comprises contacting a
CC sample with a binding agent that binds to the proteins of the invention

CC and determining the amount of bound protein in the sample. The
CC polypeptides may be used as antigens in the production of antibodies
CC specific for P. acnes proteins. These antibodies can be used to
CC downregulate expression and activity of P. acnes polypeptides and
CC therefore treat P. acnes infections. The antibodies may also be used as
CC diagnostic agents for determining P. acnes presence, for example, by
CC enzyme linked immunosorbent assay (ELISA).
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 158 AA;

Query Match 3.7%; Score 7; DB 22; Length 158;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 49 CGPFRGL 55
DB 141 CGPFRGL 147

RESULT 44

ABBA7473
ID ABBA7473 standard; Protein; 202 AA.

XX AC ABBA7473;

XX DT 05-FEB-2002 (first entry)

XX DE Listeria monocytogenes protein #177.

XX KM Antibacterial; gene therapy; vaccine; biosynthesis; biodegradation;
XX vitamin B12; bacterial infection; disease.

XX OS Listeria monocytogenes.

XX PN WO200177335-A2.

XX PD 18-OCT-2001.

XX PF 11-APR-2001; 2001WO-FR01118.

XX PR 11-APR-2000; 2000FR-0004629.

XX PA (INSP) INST PASTEUR.

XX PI Buchrieser C, Frangeul L, Couve E, Rusnock C, Fsihi H, Dehoux P;
PI Dussurget O, Chetoui F, Nedjari H, Glaser P, Kunst F, Cossart P;
PI Daniels J, Goebel W, Kreft J, Kuhn M, Ng E, Vazquez-Boland JA;
PI Dominguez-Bernal G, Garrido-Garcia P, Tierrez-Martinez A, Amend A;
PI Charraboury T, Dommann E, Hain T, Berche P, Charbit A, Durant L;
PI Perez-Diaz J, Baquero F, Garcia Del Portillo F, Gomez-Lopez N;
PI Madueno E, De Pablos B, Wehlund J, Kaerst U, Entian K, Hauf J;
PI Rose M, Voss H;
XX WPI: 2002-010914/01.

XX PT Genomic sequence for Listeria monocytogenes, useful e.g. for treatment
XX and prevention of Listeria and related bacterial infections, and
XX related polypeptides -

XX PS Claim 6; SEQ ID No 178; 192pp; French.

XX CC The present invention relates to the genome sequence of Listeria
XX monocytogenes EGD-e (see ABA03041). The genome sequence and fragments of
XX it are useful for selecting probes and primers for detecting genes in L.
XX monocytogenes and related organisms, and for studying genetic
XX polymorphisms and other genomes. The present sequence is a protein
XX encoded by the genome sequence of the present invention. Proteins
XX expressed from the genome sequence are useful for raising specific
XX antibodies, identification of L. monocytogenes and related organisms, and
XX for biosynthesis and biodegradation, especially biosynthesis of Vitamin

CC B12. The genome sequence and proteins encoded by it are also useful for
CC selecting compounds that regulate gene expression and cell replication
CC and modulate L. monocytogenes-related diseases. In addition, the genome
CC sequence and proteins encoded by it are useful in pharmaceutical and
CC vaccine compositions for the treatment or prevention of infections by L.
CC monocytogenes and related organisms.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 202 AA;

Query Match 3.7%; Score 7; DB 23; Length 202;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 171 HDGSIDL 177
DB 62 HDGSIDL 68

RESULT 45

ABG26815
ID ABG26815 standard; Protein; 213 AA.

XX AC ABG26815;

XX DT 18-FEB-2002 (first entry)

XX DE Novel human diagnostic protein #26806.

XX KM Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder.

XX OS Homo sapiens.

XX PN WO200175067-A2.

XX PD 11-OCT-2001.

XX PF 30-MAR-2001; 2001WO-US08631.

XX PR 31-MAR-2000; 2000US-0540217.

XX PR 23-AUG-2000; 2000US-0649167.

XX PA (HYSE-) HYSEQ INC.

XX PI Drmanac RT, Liu C, Tang YT;

XX DR WPI: 2001-639362/73.

XX DR N-PSDB: AAS91002.

XX PT New isolated polynucleotide and encoded polypeptides, useful in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits and to assess
XX biodiversity -

XX PS Claim 20; SEQ ID No 57174; 103pp; English.

XX CC The invention relates to isolated polynucleotide (I) and
XX polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX and gene mapping, and in recombinant production of (II). The
XX polynucleotides are also used in diagnostics as expressed sequence tags
XX for identifying expressed genes. (I) is useful in gene therapy techniques
XX to restore normal activity of (II) or to treat disease states involving
XX (II). (II) is useful for generating antibodies against it, detecting or
XX quantitating a polypeptide in tissue, as molecular weight markers and as
XX a food supplement. (II) and its binding partners are useful in medical
XX imaging of sites expressing (II). (I) and (II) are useful for treating
XX disorders involving aberrant protein expression or biological activity.
XX The polypeptide and polynucleotide sequences have applications in
XX diagnostics, forensics, gene mapping, identification of mutations

CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at http://wipo.int/pub/published_pct_sequences.
XX

SQ Sequence 213 AA;

Query Match 3.7%; Score 7; DB 22; Length 213;

Best Local Similarity 100.0%; Pred. No. 89;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 152 SLVLERR 158
|||||||

Db 189 SLVLERR 195

Search completed: November 9, 2002, 07:27:47
Job time : 84 secs